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* * * * * * * * * * Welcome to STN International * * * * * * * * * *

NEWS 1		Web Page for STN Seminar Schedule - N. America
NEWS 2	DEC 01	ChemPort single article sales feature unavailable
NEWS 3	FEB 02	Simultaneous left and right truncation (SLART) added for CERAB, COMPUAB, ELCOM, and SOLIDSTATE
NEWS 4	FEB 02	GENBANK enhanced with SET PLURALS and SET SPELLING
NEWS 5	FEB 06	Patent sequence location (PSL) data added to USGENE
NEWS 6	FEB 10	COMPENDEX reloaded and enhanced
NEWS 7	FEB 11	WTEXTILES reloaded and enhanced
NEWS 8	FEB 19	New patent-examiner citations in 300,000 CA/CAplus patent records provide insights into related prior art
NEWS 9	FEB 19	Increase the precision of your patent queries -- use terms from the IPC Thesaurus, Version 2009.01
NEWS 10	FEB 23	Several formats for image display and print options discontinued in USPATFULL and USPAT2
NEWS 11	FEB 23	MEDLINE now offers more precise author group fields and 2009 MeSH terms
NEWS 12	FEB 23	TOXCENTER updates mirror those of MEDLINE - more precise author group fields and 2009 MeSH terms
NEWS 13	FEB 23	Three million new patent records blast AEROSPACE into STN patent clusters
NEWS 14	FEB 25	USGENE enhanced with patent family and legal status display data from INPADOCDB
NEWS 15	MAR 06	INPADOCDB and INPAFAMDB enhanced with new display formats
NEWS 16	MAR 11	EPFULL backfile enhanced with additional full-text applications and grants
NEWS 17	MAR 11	ESBIOBASE reloaded and enhanced
NEWS 18	MAR 20	CAS databases on STN enhanced with new super role for nanomaterial substances
NEWS 19	MAR 23	CA/CAplus enhanced with more than 250,000 patent equivalents from China
NEWS 20	MAR 30	IMSPATENTS reloaded and enhanced
NEWS 21	APR 03	CAS coverage of exemplified prophetic substances enhanced
NEWS 22	APR 07	STN is raising the limits on saved answers
NEWS 23	APR 24	CA/CAplus now has more comprehensive patent assignee information
NEWS 24	APR 26	USPATFULL and USPAT2 enhanced with patent assignment/reassignment information
NEWS 25	APR 28	CAS patent authority coverage expanded

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 NEWS 26  APR 28  ENCOMPLIT/ENCOMPLIT2 search fields enhanced
 NEWS 27  APR 28  Limits doubled for structure searching in CAS
                  REGISTRY
 NEWS 28  MAY 08  STN Express, Version 8.4, now available
 NEWS 29  MAY 11  STN on the Web enhanced
 NEWS 30  MAY 11  BEILSTEIN substance information now available on
                  STN Easy
 NEWS 31  MAY 14  DGENE, PCTGEN and USGENE enhanced with increased
                  limits for exact sequence match searches and
                  introduction of free HIT display format
 NEWS 32  MAY 15  INPADOCDB and INPAFAMDB enhanced with Chinese legal
                  status data

 NEWS EXPRESS JUNE 27 08 CURRENT WINDOWS VERSION IS V8.3,
              AND CURRENT DISCOVER FILE IS DATED 06 APRIL 2009.

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* * * * * * * * * * * * * * * * STN  Columbus  * * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 09:48:02 ON 24 MAY 2009

=> file reg
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                         ENTRY    SESSION
FULL ESTIMATED COST                                       0.22       0.22

FILE 'REGISTRY' ENTERED AT 09:48:20 ON 24 MAY 2009
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STRUCTURE FILE UPDATES:   22 MAY 2009  HIGHEST RN 1148179-26-3
DICTIONARY FILE UPDATES:  22 MAY 2009  HIGHEST RN 1148179-26-3

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TSCA INFORMATION NOW CURRENT THROUGH January 9, 2009.

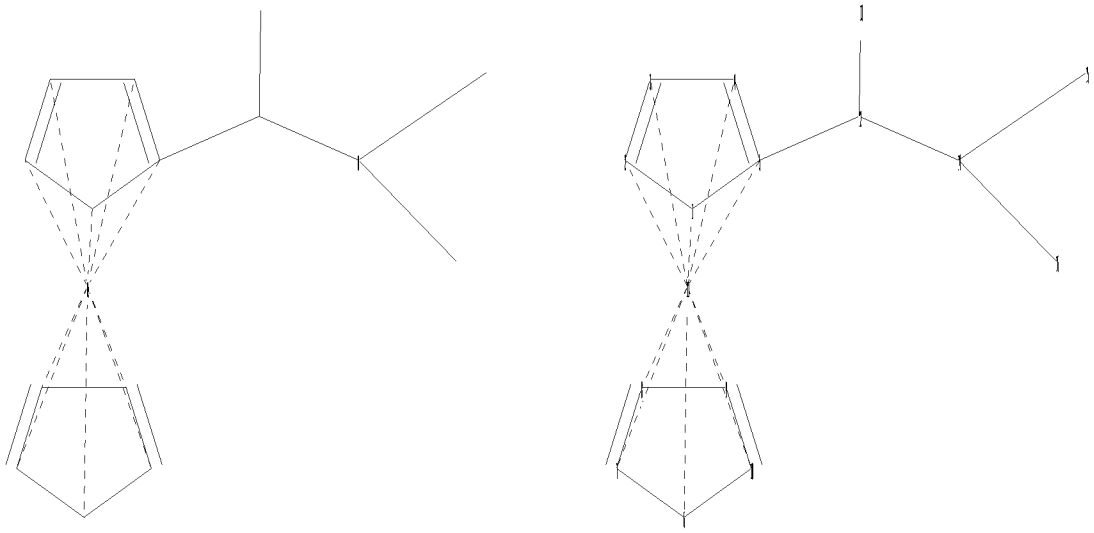
  Please note that search-term pricing does apply when
  conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and
```

predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

http://www.cas.org/support/stngen/stndoc/properties.html

=>
Uploading C:\Program Files\Stnexp\Queries\10586204\Struc 1.str

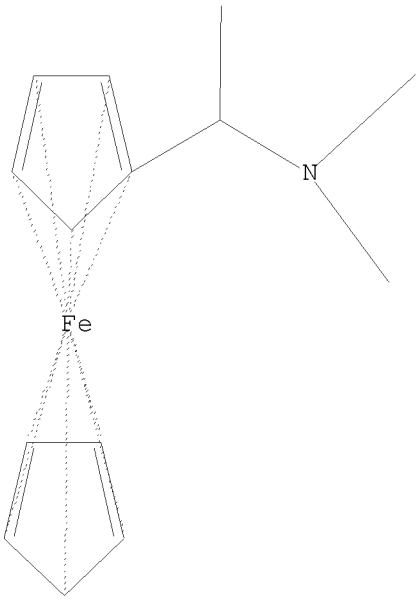


chain nodes :
12 13 14 15 16
ring nodes :
1 2 3 4 5 6 7 8 9 10 11
chain bonds :
5-12 12-13 12-14 14-15 14-16
ring bonds :
1-2 1-5 1-11 2-3 2-11 3-4 3-11 4-5 4-11 5-11 6-7 6-10 6-11 7-8 7-11
8-9 8-11 9-10 9-11 10-11
exact/norm bonds :
1-2 1-5 1-11 2-3 2-11 3-4 3-11 4-5 4-11 5-11 6-7 6-10 6-11 7-8 7-11
8-9 8-11 9-10 9-11 10-11 12-14 14-15 14-16
exact bonds :
5-12 12-13

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:Atom 12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS

L1 STRUCTURE UPLOADED

=> d
L1 HAS NO ANSWERS
L1 STR



Structure attributes must be viewed using STN Express query preparation.

```
=> l1
SAMPLE SEARCH INITIATED 09:48:46 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -      281 TO ITERATE

100.0% PROCESSED      281 ITERATIONS                              23 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:          4615 TO     6625
PROJECTED ANSWERS:              173 TO      747

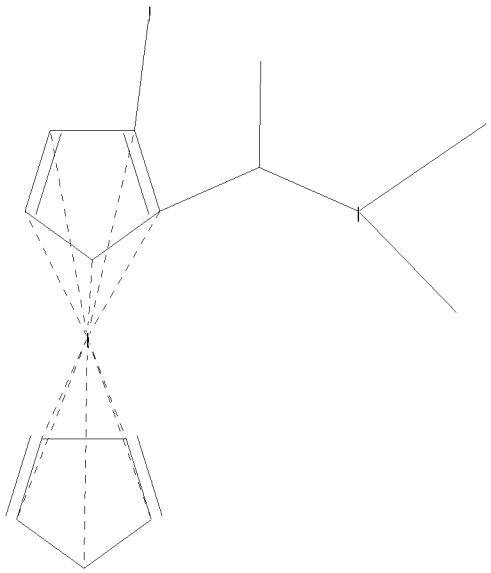
L2            23 SEA SSS SAM L1

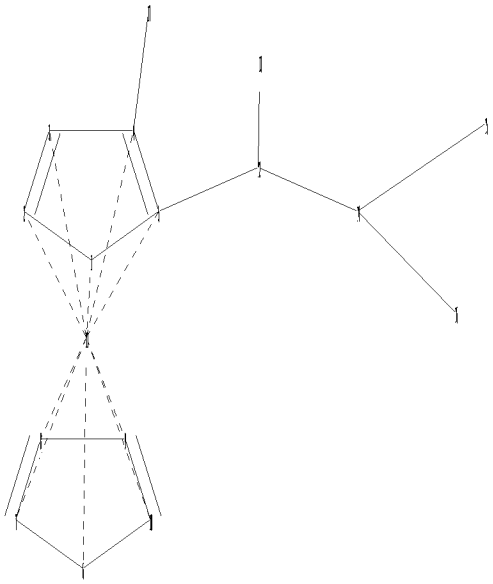
=> l1 full
FULL SEARCH INITIATED 09:48:51 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -     5422 TO ITERATE

100.0% PROCESSED     5422 ITERATIONS                             462 ANSWERS
SEARCH TIME: 00.00.01

L3           462 SEA SSS FUL L1

=>
Uploading C:\Program Files\Stnexp\Queries\10586204\Struc 2.str
```





chain nodes :
12 13 14 15 16 17
ring nodes :
1 2 3 4 5 6 7 8 9 10 11
chain bonds :
4-17 5-12 12-13 12-14 14-15 14-16
ring bonds :
1-2 1-5 1-11 2-3 2-11 3-4 3-11 4-5 4-11 5-11 6-7 6-10 6-11 7-8 7-11
8-9 8-11 9-10 9-11 10-11
exact/norm bonds :
1-2 1-5 1-11 2-3 2-11 3-4 3-11 4-5 4-11 5-11 6-7 6-10 6-11 7-8 7-11
8-9 8-11 9-10 9-11 10-11 12-14 14-15 14-16
exact bonds :
4-17 5-12 12-13

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:Atom 12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS

L4 STRUCTURE UPLOADED

=> sam sub=l3
ENTER LOGIC EXPRESSION, QUERY NAME, OR (END):end
SEARCH ENDED BY USER

=> s l4 sam sss sub'l3
MISMATCHED QUOTE 'SUB'L3'
Quotation marks (or apostrophes) must be used in pairs,
one before and one after the expression you are setting
off or masking.

```
=> s l4 sam sss sub=l3
SAMPLE SUBSET SEARCH INITIATED 09:50:11 FILE 'REGISTRY'
SAMPLE SUBSET SCREEN SEARCH COMPLETED -       17 TO ITERATE

100.0% PROCESSED       17 ITERATIONS                              0 ANSWERS
SEARCH TIME: 00.00.01

PROJECTIONS (WITHIN SPECIFIED SUBSET):           ONLINE  **COMPLETE**
PROJECTED ITERATIONS (WITHIN SPECIFIED SUBSET):           93 TO      587
PROJECTED ANSWERS (WITHIN SPECIFIED SUBSET):               0 TO        0

L5            0 SEA SUB=L3 SSS SAM L4

=> s l4 full sss sub=l3
FULL SUBSET SEARCH INITIATED 09:50:19 FILE 'REGISTRY'
FULL SUBSET SCREEN SEARCH COMPLETED -      376 TO ITERATE

100.0% PROCESSED      376 ITERATIONS                              1 ANSWERS
SEARCH TIME: 00.00.01

L6            1 SEA SUB=L3 SSS FUL L4

=> d scan

L6   1 ANSWERS   REGISTRY  COPYRIGHT 2009 ACS on STN
IN   Ferrocene, 1-bromo-2-[(1R)-1-(dimethylamino)ethyl]-3-(diphenylphosphino)-,
     (1R)- (9CI)
MF   C26 H27 Br Fe N P
CI   CCS
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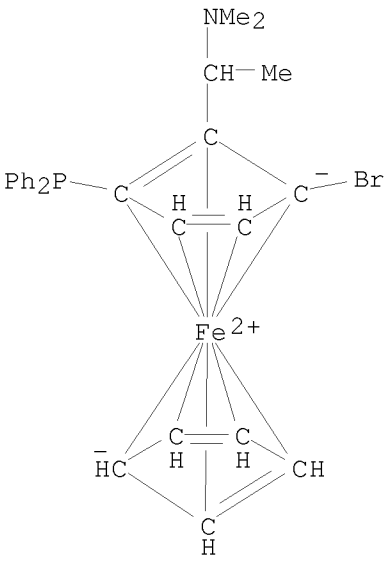
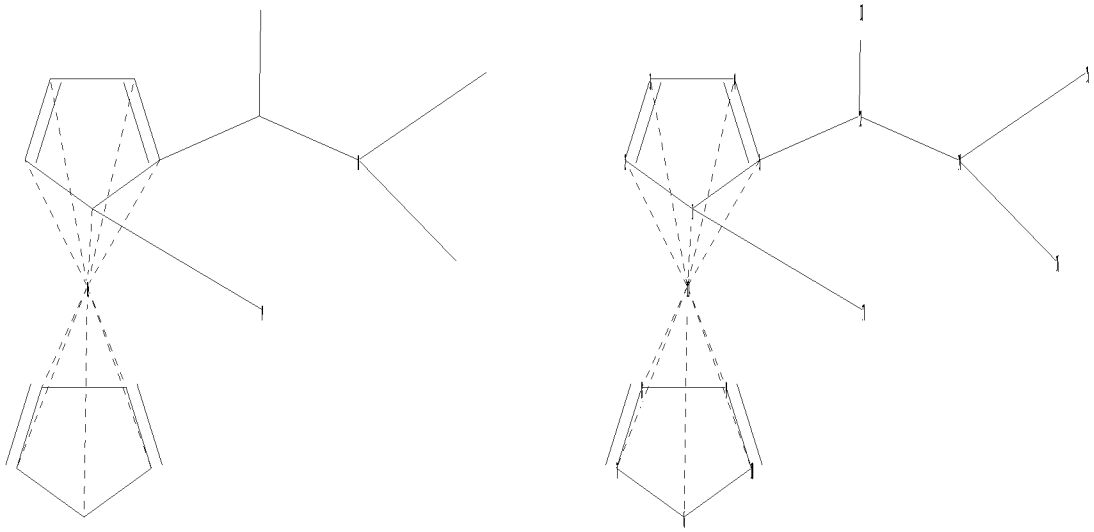


ALL ANSWERS HAVE BEEN SCANNED

=>
Uploading C:\Program Files\Stnexp\Queries\10586204\Struc 3.str

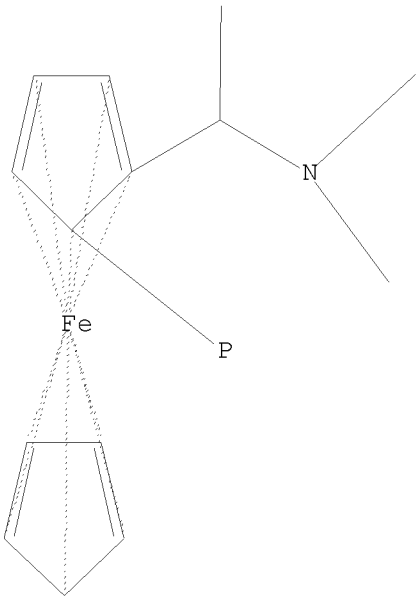


chain nodes :
12 13 14 15 16 17
ring nodes :
1 2 3 4 5 6 7 8 9 10 11
chain bonds :
1-17 5-12 12-13 12-14 14-15 14-16
ring bonds :
1-2 1-5 1-11 2-3 2-11 3-4 3-11 4-5 4-11 5-11 6-7 6-10 6-11 7-8 7-11
8-9 8-11 9-10 9-11 10-11
exact/norm bonds :
1-2 1-5 1-11 2-3 2-11 3-4 3-11 4-5 4-11 5-11 6-7 6-10 6-11 7-8 7-11
8-9 8-11 9-10 9-11 10-11 12-14 14-15 14-16
exact bonds :
1-17 5-12 12-13

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:Atom 12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS

L7 STRUCTURE UPLOADED

=> d
L7 HAS NO ANSWERS
L7 STR



Structure attributes must be viewed using STN Express query preparation.

```
=> s l7 sam sss sub=l3
SAMPLE SUBSET SEARCH INITIATED 09:53:49 FILE 'REGISTRY'
SAMPLE SUBSET SCREEN SEARCH COMPLETED -       17 TO ITERATE

100.0% PROCESSED       17 ITERATIONS                             11 ANSWERS
SEARCH TIME: 00.00.01

PROJECTIONS (WITHIN SPECIFIED SUBSET):           ONLINE  **COMPLETE**
PROJECTED ITERATIONS (WITHIN SPECIFIED SUBSET):           93 TO      587
PROJECTED ANSWERS (WITHIN SPECIFIED SUBSET):              22 TO      418

L8           11 SEA SUB=L3 SSS SAM L7

=> s l7 full sss sub=l3
FULL SUBSET SEARCH INITIATED 09:53:55 FILE 'REGISTRY'
FULL SUBSET SCREEN SEARCH COMPLETED -      376 TO ITERATE

100.0% PROCESSED      376 ITERATIONS                            293 ANSWERS
SEARCH TIME: 00.00.01

L9          293 SEA SUB=L3 SSS FUL L7

=> file caplus
COST IN U.S. DOLLARS                              SINCE FILE      TOTAL
                                                     ENTRY    SESSION
FULL ESTIMATED COST                                 278.20     278.42

FILE 'CAPLUS' ENTERED AT 09:54:04 ON 24 MAY 2009
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FILE COVERS 1907 - 24 May 2009 VOL 150 ISS 22
FILE LAST UPDATED: 22 May 2009 (20090522/ED)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Feb 2009
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Feb 2009

CAplus now includes complete International Patent Classification (IPC) reclassification data for the third quarter of 2008.

This file contains CAS Registry Numbers for easy and accurate

```
=> l9 and l3
           134 L9
           227 L3
L10        134 L9 AND L3

=> l10 and lithiat?
         23096 LITHIAT?
L11         14 L10 AND LITHIAT?

=> d ibib abs hitstr 1-14
```

L11 ANSWER 1 OF 14 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2007:1069637 CAPLUS
DOCUMENT NUMBER: 149:307455
TITLE: Imidazolium-tagged ferrocene ligands
AUTHOR(S): Sebesta, Radovan; Meciarova, Maria; Polackova, Viera; Veverkova, Eva; Kmentova, Iveta; Gajdosikova, Eva; Cvengros, Jan; Buffa, Radovan; Gajda, Vladimir
CORPORATE SOURCE: Department of Organic Chemistry, Faculty of Natural Sciences, Comenius University, Bratislava, 842 15, Slovakia
SOURCE: Collection of Czechoslovak Chemical Communications (2007), 72(8), 1057-1068
CODEN: CCCCAK; ISSN: 0010-0765
PUBLISHER: Institute of Organic Chemistry and Biochemistry, Academy of Sciences of the Czech Republic
DOCUMENT TYPE: Journal
LANGUAGE: English

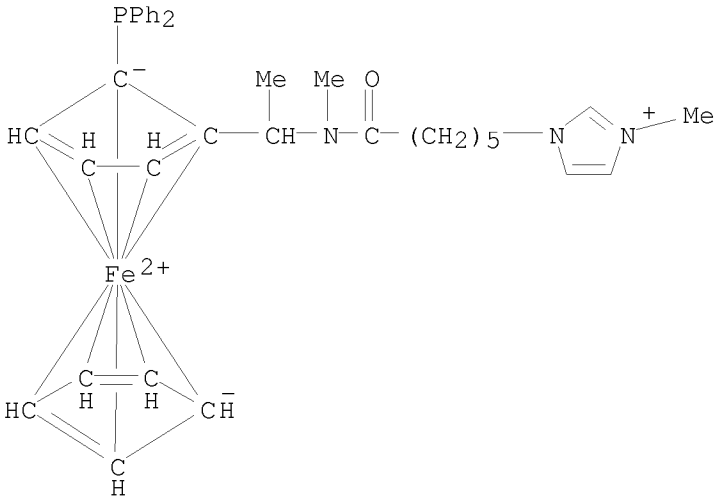
AB New chiral imidazolium-tagged ferrocene ligands were prepared

Diastereoselective ortho-lithiation of the Ugi amine was employed in the synthesis of planar chiral P/P, P/N and Se/N ligands. These compds. were attached through six-carbon spacers to an imidazolium moiety. Pd-complexes of these ligands were successfully used as catalysts for asym. allylic substitution in ionic liqs.

IT 1050440-00-0P 1050440-03-3P 1050440-07-7P
RL: CAT (Catalyst use); SPN (Synthetic preparation); PREP (Preparation); USES (Uses)
(preparation of imidazolium-tagged ferrocene ligands as catalysts for asym. allylic substitution in ionic liqs.)

RN 1050440-00-0 CAPLUS
CN Ferrocene, 1-(diphenylphosphino)-2-[(1R)-1-[methyl[6-(1-methyl-1H-imidazolium-3-yl)-1-oxohexyl]amino]ethyl]-, bromide (1:1), (1R)- (CA INDEX NAME)

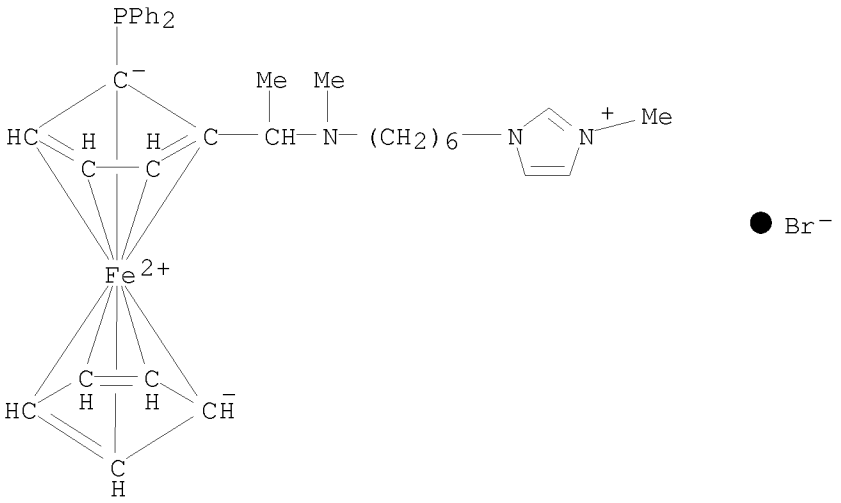
PAGE 1-A



PAGE 2-A

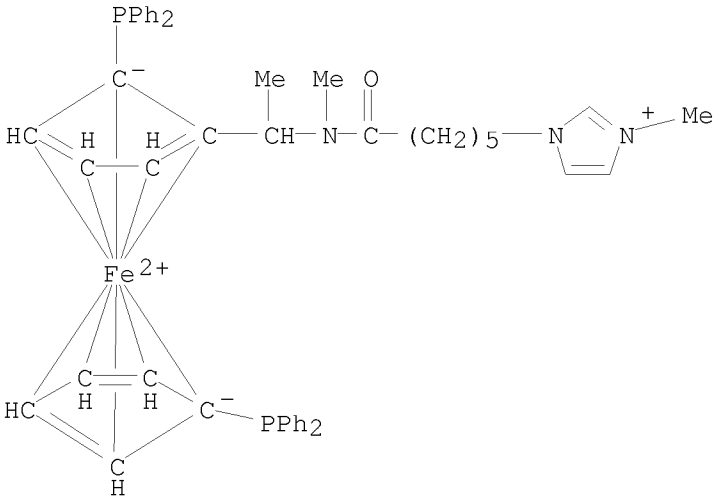
● Br^-

RN 1050440-03-3 CAPLUS
CN Ferrocene, 1-(diphenylphosphino)-2-[(1R)-1-[methyl[6-(1-methyl-1H-imidazolium-3-yl)hexyl]amino]ethyl]-, bromide (1:1), (1R)- (CA INDEX NAME)



RN 1050440-07-7 CAPLUS
CN Ferrocene, 1,1'-bis(diphenylphosphino)-2-[(1R)-1-[methyl[6-(1-methyl-1H-imidazolium-3-yl)-1-oxohexyl]amino]ethyl]-, bromide (1:1), (1R)- (CA INDEX NAME)

PAGE 1-A



PAGE 2-A

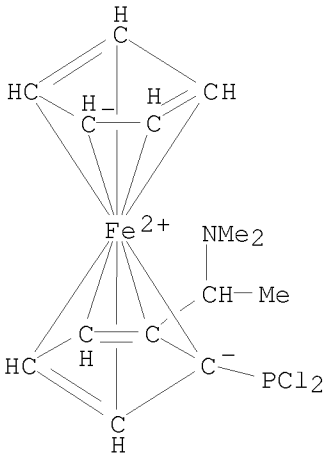
● Br^-

REFERENCE COUNT: 35 THERE ARE 35 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

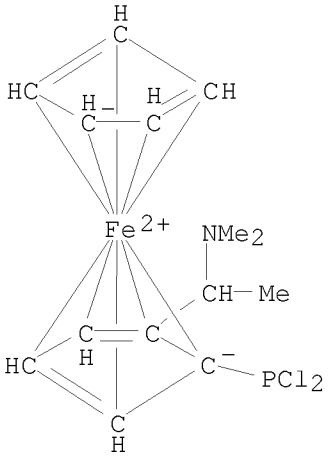
L11 ANSWER 2 OF 14 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2007:345587 CAPLUS
DOCUMENT NUMBER: 147:10043
TITLE: Aminoalkylferrocenyldichlorophosphanes: facile synthesis of versatile chiral starting materials
AUTHOR(S): Tschirschwitz, Steffen; Loennecke, Peter; Hey-Hawkins, Evamarie
CORPORATE SOURCE: Institut fuer Anorganische Chemie der Universitaet Leipzig, Leipzig, Germany
SOURCE: Dalton Transactions (2007), (14), 1377-1382
CODEN: DTARAF; ISSN: 1477-9226
PUBLISHER: Royal Society of Chemistry
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 147:10043

AB Racemic and optically pure aminoalkylferrocenyldichlorophosphines were prepared by reaction of PCl3 with the corresponding lithiated aminoalkylferrocene precursors. Crystal structures of racemic 1-dichlorophosphino-2-N,N-dimethylaminomethylferrocene, racemic 1-dichlorophosphino-2-N,N-dimethylaminomethyl-3-triphenylsilylferrocene and (S)-N,N-dimethyl-1-[(R)-2-(dichlorophosphino)ferrocenyl]ethylamine reveal short intramol. N···P distances, which are suggestive of weak N→P dative bonds. The aminoalkylferrocenyldichlorophosphines can be used for the preparation of the corresponding primary phosphines, one of which was characterized by x-ray crystallog. Optically pure (R)-N,N-dimethyl-1-[(S)-2-(phosphino)ferrocenyl]ethylamine can easily be lithiated twice to give the 1st enantiomerically pure Li-P closo cluster compound, which formed dark violet octahedral crystals. [{Li2(THF)0.5-1-P-2-CH(Me)NMe2C5H3}FeCp]6 crystallizes in the chiral space group P2,2,2, [Flack parameter x = -0.02(1)] and reveals a hexameric structure of like-configurated ferrocenylphosphinediide units associated through P-Li contacts to a central Li12P6 cluster.

IT 937168-76-8P
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation) (crystal structure; preparation and structures of racemic and optically pure aminoalkylferrocenyldichlorophosphines, primary aminoalkylferrocenylphosphines and hexameric chiral dilithium ferrocenylphosphinediide closo cluster)
RN 937168-76-8 CAPLUS
CN Ferrocene, 1-(dichlorophosphino)-2-[(1S)-1-(dimethylamino)ethyl]-, (1S)- (CA INDEX NAME)



IT 937168-87-1P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and structures of racemic and optically pure aminoalkylferrocenyldichlorophosphines, primary aminoalkylferrocenylphosphines and hexameric chiral dilithium ferrocenylphosphinediide closo cluster)
RN 937168-87-1 CAPLUS
CN Ferrocene, 1-(dichlorophosphino)-2-[(1R)-1-(dimethylamino)ethyl]-, (1R)- (CA INDEX NAME)



REFERENCE COUNT: 35 THERE ARE 35 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 3 OF 14 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2006:1147707 CAPLUS
DOCUMENT NUMBER: 145:471698
TITLE: Multiple substituted ferrocenes containing at least three substituents and ligating heteroatom groups in

the same cyclopentadienyl ring and process for preparation thereof
INVENTOR(S): Pugin, Benoit; Feng, Xiangdong
PATENT ASSIGNEE(S): Solvias A.-G., Switz.
SOURCE: PCT Int. Appl., 43pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006114438	A2	20061102	WO 2006-EP61861	20060427
WO 2006114438	A3	20070118		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
CA 2605434	A1	20061102	CA 2006-2605434	20060427
EP 1874786	A2	20080109	EP 2006-754872	20060427
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR				
JP 2008539202	T	20081113	JP 2008-508222	20060427
IN 2007DN09026	A	20080104	IN 2007-DN9026	20071123
CN 101213202	A	20080702	CN 2006-80023635	20071228
PRIORITY APPLN. INFO.:			CH 2005-748 A	20050428
			WO 2006-EP61861 W	20060427

OTHER SOURCE(S): CASREACT 145:471698; MARPAT 145:471698

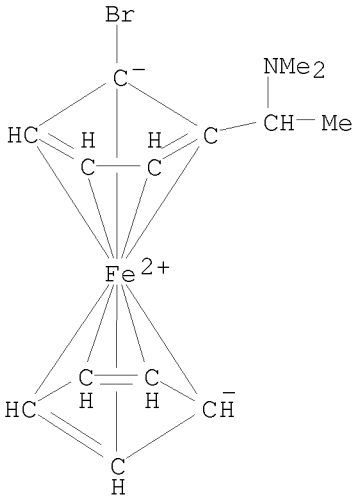
AB Ferrocenes [(η5-1-R2-2-X-3-Y-4-R1-C5H)Fe(η5-C5H5-nR3n)] (1, n = 0-5, R3 = alkyl, Ph, preferably n = 0; R1 = H, C1-20 organyl, diorganylphosphino, P-heterocyclyl, alkylthio, silyl; R2 = halo, alkyl, carboxy, formyl, hydroxyalkyl, aminomethyl, silyl, phosphino, phosphono, SH; Y = directing optionally chiral group, preferably 1-dialkylaminoethyl, 2-oxazolinyl, pyrrolidinylmethyl, 1,3-dioxolanyl), useful as ligands for transition metal-catalyzed coupling reactions and as intermediates in preparation of bidentate ligands (no data), were prepared by a process comprising lithiation of substituted ferrocenes by alkyllithium or Grignard reagents followed by halogenation or reaction with electrophilic organic compds.; further substitution in haloferrocenes are performed by regioselective lithiation of the cyclopentadienyl ligand in ortho-position to the halogen by lithium secondary amides followed by alkylation, hydrolysis, silylation or phosphination. In an example, (2S)-2-bromo-1-[(1R)-1-(dimethylaminoethyl)]-3-methylferrocene was prepared by regioselective lithiation of (1S)-1-bromo-2-[(1R)-1-(dimethylaminoethyl)]ferrocene with lithium 2,2,6,6,-tetramethylpiperidide followed by reaction with MeI; the product was converted to (2R)-1-[(1R)-1-(dimethylaminoethyl)]-2-

(diphenylphosphino)-3-methylferrocene by reaction with BuLi and Ph2PCl.

IT 205746-95-8
RL: RCT (Reactant); RACT (Reactant or reagent)
(process for preparation of planar-chiral one-ring tri- and tetrasubstituted ferrocene compds. and ligands by directed lithiation of haloferrocenes with subsequent substitution)

RN 205746-95-8 CAPLUS

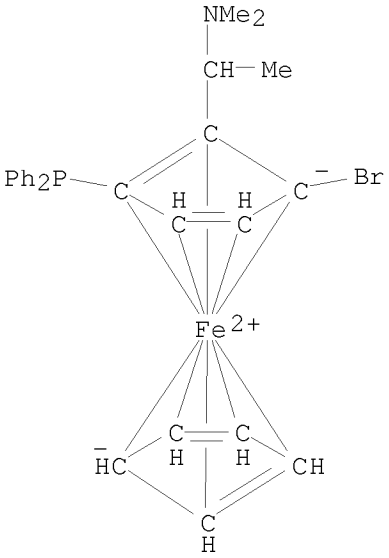
CN Ferrocene, 1-bromo-2-[(1R)-1-(dimethylamino)ethyl]-, (1S)- (CA INDEX NAME)



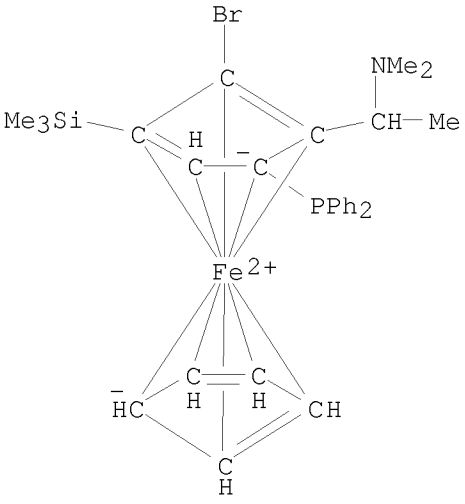
IT 913621-01-9P 913621-03-1P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(process for preparation of planar-chiral one-ring tri- and tetrasubstituted ferrocene compds. and ligands by directed lithiation of haloferrocenes with subsequent substitution)

RN 913621-01-9 CAPLUS

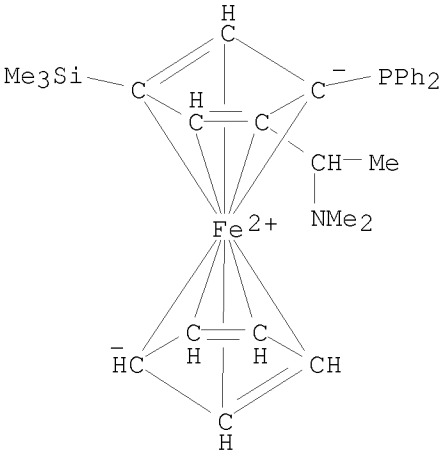
CN Ferrocene, 1-bromo-2-[(1R)-1-(dimethylamino)ethyl]-3-(diphenylphosphino)-, (1R)- (9CI) (CA INDEX NAME)



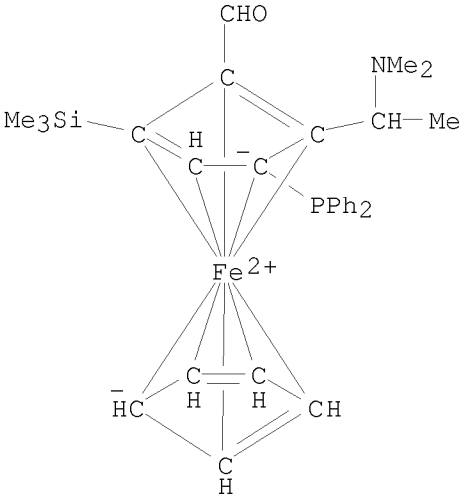
RN 913621-03-1 CAPLUS
CN Ferrocene, 3-bromo-2-[(1R)-1-(dimethylamino)ethyl]-1-(diphenylphosphino)-4-(trimethylsilyl)-, (1R)- (9CI) (CA INDEX NAME)



IT 913621-04-2P 913621-05-3P
RL: SPN (Synthetic preparation); PREP (Preparation)
(process for preparation of planar-chiral one-ring tri- and tetrasubstituted ferrocene compds. and ligands by directed lithiation of haloferrocenes with subsequent substitution)
RN 913621-04-2 CAPLUS
CN Ferrocene, 2-[(1R)-1-(dimethylamino)ethyl]-1-(diphenylphosphino)-4-(trimethylsilyl)-, (1R)- (9CI) (CA INDEX NAME)



RN 913621-05-3 CAPLUS
CN Ferrocene, 2-[(1R)-1-(dimethylamino)ethyl]-1-(diphenylphosphino)-3-formyl-4-(trimethylsilyl)-, (1R)- (9CI) (CA INDEX NAME)

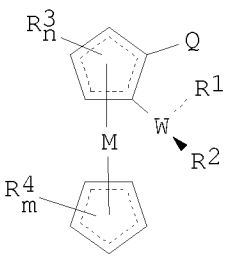


L11 ANSWER 4 OF 14 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2005:673306 CAPLUS
DOCUMENT NUMBER: 143:153519
TITLE: Metallocene-based chiral phosphine or arsine ligands
INVENTOR(S): Chen, Wei-Ping; Whittall, John
PATENT ASSIGNEE(S): Stylacats Limited, UK
SOURCE: PCT Int. Appl., 114 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
WO 2005068477	A1	20050728	WO 2005-GB112		20050114
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW					
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG					
AU 2005205224	A1	20050728	AU 2005-205224		20050114
AU 2005205224	B2	20090423			
CA 2553607	A1	20050728	CA 2005-2553607		20050114
GB 2410950	A	20050817	GB 2005-701		20050114
GB 2410950	B	20090520			
GB 2410951	A	20050817	GB 2005-704		20050114
EP 1709054	A1	20061011	EP 2005-701880		20050114
EP 1709054	B1	20090304			
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, BA, HR, IS, YU					
CN 1914217	A	20070214	CN 2005-80003721		20050114
JP 2007517849	T	20070705	JP 2006-548397		20050114
AT 404573	T	20080815	AT 2005-701893		20050114
ES 2313282	T3	20090301	ES 2005-701893		20050114
AT 424404	T	20090315	AT 2005-701880		20050114
IN 2006MN00835	A	20070413	IN 2006-MN835		20060714
US 20070161762	A1	20070712	US 2006-586287		20060929
PRIORITY APPLN. INFO.:			GB 2004-720	A	20040114
			WO 2005-GB112	W	20050114

OTHER SOURCE(S): CASREACT 143:153519; MARPAT 143:153519

GI



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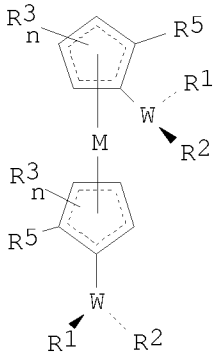

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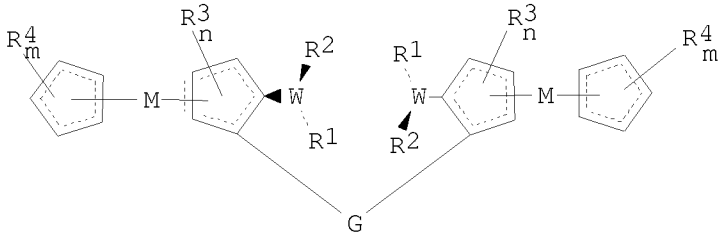


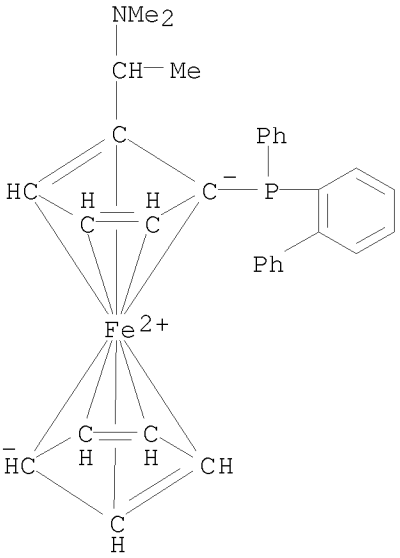
III

AB The present invention relates to metallocene-based phosphine ligands, I-III (W = P, As; M = metal, specially Fe; R1, R2 = independent from each other (un)substituted, branched, straight chain alkyl, alkoxy, alkylamino, (un)substituted cycloalkyl, cycloalkoxy, cycloalkylamino, carbocyclic aryl, etc.; R3, R4 = same or different (un)substituted, branched, straight chain alkyl, (un)substituted cycloalkyl, carbocyclic aryl, etc.; n = 0-3; m = 0-5; Q = organophosphino, organoarsino, etc.; G = carbonyl and amino substituted linker, etc.), having chirality at phosphorus and at least one other element of chirality (planar chirality and/or chirality at carbon); and to the use of such ligands in asym. transformation reactions to generate high enantiomeric excesses of formed compds. Thus, preparation of (RC, SFe, SP)-2-[1-[(N-methyl-N-diphenylphosphino)amino]ethyl]-1-[(2-methoxyphenyl)phenylphosphino]ferrocene is described and used as cocatalyst for [Rh(COD)2][OTf] catalyzed enantioselective hydrogenation of Me 2-acetamidoacrylate. A method for the preparation of ligands according to the invention involving the conversion of the ortho-lithiated substituted metallocene to a phosphine chiral at phosphorus is also disclosed.

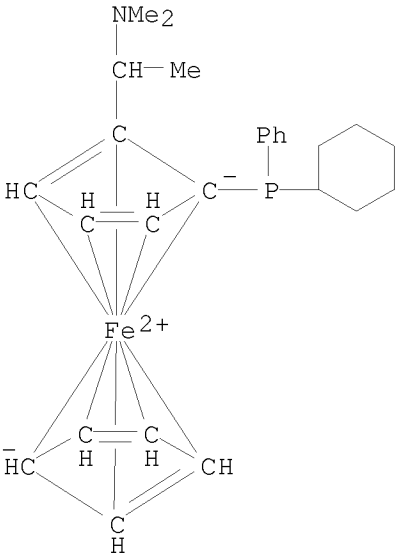
IT 859839-62-6P 859839-68-2P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of metallocene-based chiral phosphine or arsine ligands as catalysts for asym. transformation)

RN 859839-62-6 CAPLUS

CN Ferrocene, 1-[(S)-[1,1'-biphenyl]-2-ylphenylphosphino]-2-[(1R)-1-(dimethylamino)ethyl]-, stereoisomer (9CI) (CA INDEX NAME)



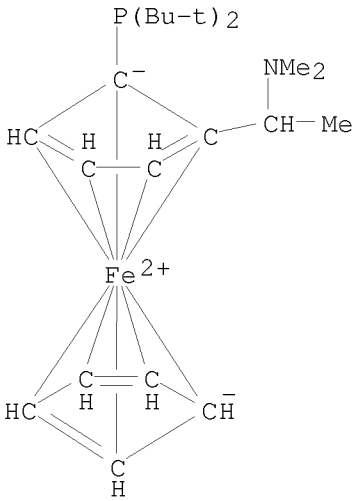
RN 859839-68-2 CAPLUS
CN Ferrocene, 1-[(R)-cyclohexylphenylphosphino]-2-[(1R)-1-(dimethylamino)ethyl]-, (1R)- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 5 OF 14 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2003:385604 CAPLUS
DOCUMENT NUMBER: 139:84992
TITLE: Fluorescence Resonance Energy Transfer (FRET) as a High-Throughput Assay for Coupling Reactions.

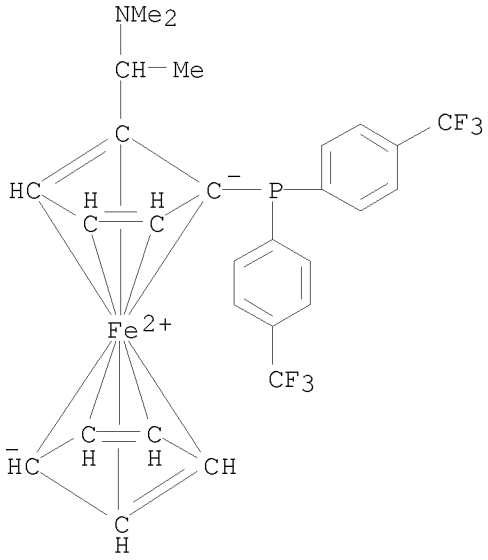
Arylation of Amines as a Case Study
AUTHOR(S): Stauffer, Shaun R.; Hartwig, John F.
CORPORATE SOURCE: Department of Chemistry, Yale University, New Haven, CT, 06520-8107, USA
SOURCE: Journal of the American Chemical Society (2003), 125(23), 6977-6985
CODEN: JACSAT; ISSN: 0002-7863
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 139:84992
AB A solution-phase assay based on fluorescence resonance energy transfer (FRET) was developed for high-throughput screening of palladium catalyzed aminations of aryl halides. Dansylpiperazine was used as the fluorescent component and a chloro- or bromoarene tagged with an azo dye as the quenching partner. Fluorescence intensities of reaction aliquots correlated linearly with reaction yield after dilution to appropriate concns. A library of 119 phosphine and heterocyclic carbene ligands was evaluated in duplicate reactions of two combinations. In general, the FRET assay displayed excellent reproducibility, with less than 5% of the duplicate expts. showing significant variability in yields. Among reactions producing greater than 50% yield, the average percent uncertainty was just 5%. For a small subset of sterically hindered ligands, differences in yields between 10 and 20% were observed between the substrates bearing dyes for the FRET assay and substrates that are unfunctionalized. However, the remaining catalyst combinations gave yields similar to those expected from literature precedent. In addition to an evaluation of the accuracy of the FRET assay, this work includes the use of the FRET assay to investigate relative activities of various catalysts for the amination of aryl bromides and chlorides and to find conditions for aminations in more polar solvents. Reactions with K3PO4 base in aqueous mixts. of polar and nonpolar organic solvents were shown to be appropriate for the amination chemical
IT 295782-51-3
RL: CAT (Catalyst use); USES (Uses)
(ligand, provided coupling yield >50; fluorescence resonance energy transfer as high-throughput ligand assay for palladium-catalyzed amination of azo-dye-tagged haloarene quencher with dansylpiperazine fluorophore)
RN 295782-51-3 CAPLUS
CN Ferrocene, 1-[bis(1,1-dimethylethyl)phosphino]-2-[1-(dimethylamino)ethyl]- (CA INDEX NAME)



REFERENCE COUNT: 66 THERE ARE 66 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

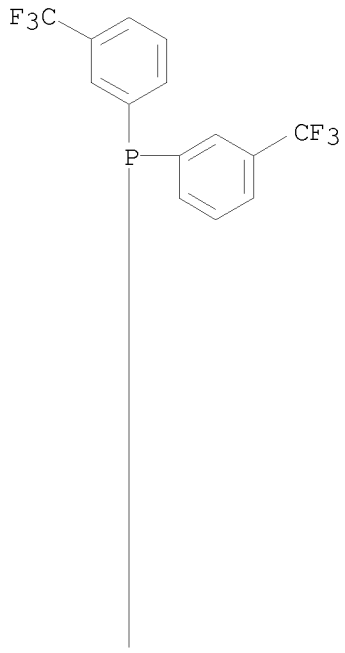
L11 ANSWER 6 OF 14 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2001:862902 CAPLUS
DOCUMENT NUMBER: 136:183912
TITLE: Structural aspects of palladium and platinum complexes with chiral diphosphinoferrocenes relevant to the regio- and stereoselective copolymerization of CO with propene
AUTHOR(S): Gambs, Celine; Consiglio, Giambattista; Togni, Antonio
CORPORATE SOURCE: Department of Chemistry, Swiss Federal Institute of Technology, Zurich, CH-8093, Switz.
SOURCE: Helvetica Chimica Acta (2001), 84(10), 3105-3126
CODEN: HCACAV; ISSN: 0018-019X
PUBLISHER: Verlag Helvetica Chimica Acta
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 136:183912
AB A series of chiral diphosphinoferrocene ligands, derived from josiphos (= (2R)-1-[(1R)-1-(dicyclohexylphosphino)ethyl]-2-(diphenylphosphino)ferrocene, formerly called {(R)-1-[(S)-2-(diphenylphosphino)ferrocenyl]ethyl}dicycloxexylphosphine) where the electronic properties of the ligand are systematically varied, were prepared X-Ray studies of five of these new ligands confirmed that these compds. display very similar conformations in the solid state and that no structural criteria could be found indicating the modified electronic properties. These ligands find application in the Pd-catalyzed highly regio- and stereoselective CO/propene copolymn. reaction, where the electronic properties of the ligand show a great impact on the catalyst activity. Coordination-chemical aspects of these diphosphinoferrocenes relevant to the CO/propene copolymn. reaction were addressed by the preparation and characterization of Pd- and Pt-complexes of the general formula [PdCl2(P-P)], [PdMe2(P-P)], [PdClMe(P-P)], [PdMe(MeCN)(P-P)]PF6, and [PtClMe(P-P)] (P-P = chiral diphosphinoferrocene ligand), four of which were characterized by x-ray crystallog.

IT 136825-02-0P 136825-03-1P 136825-05-3P
166172-70-9P 166172-71-0P 399022-86-7P
399022-93-6P 399022-95-8P 399040-57-4P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and phosphination with dicyclohexylphosphine)
RN 136825-02-0 CAPLUS
CN Ferrocene, 1-[bis[4-(trifluoromethyl)phenyl]phosphino]-2-[(1R)-1-(dimethylamino)ethyl]-, (1R)- (CA INDEX NAME)

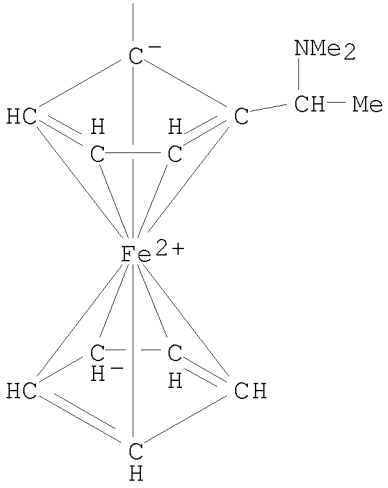


RN 136825-03-1 CAPLUS
CN Ferrocene, 1-[bis[3-(trifluoromethyl)phenyl]phosphino]-2-[(1R)-1-(dimethylamino)ethyl]-, (1R)- (9CI) (CA INDEX NAME)

PAGE 1-A

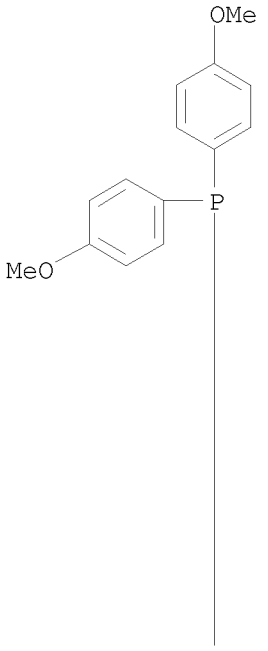


PAGE 2-A



RN 136825-05-3 CAPLUS
CN Ferrocene, 1-[bis(4-methoxyphenyl)phosphino]-2-[(1R)-1-(dimethylamino)ethyl]-, (1R)- (9CI) (CA INDEX NAME)

PAGE 1-A



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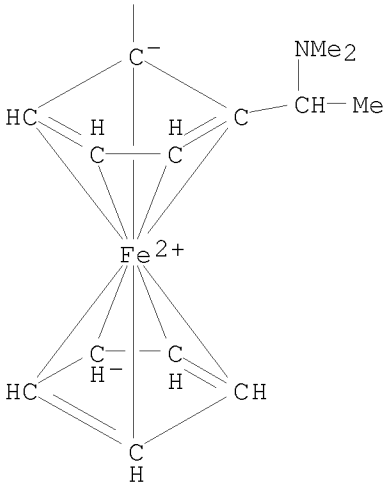
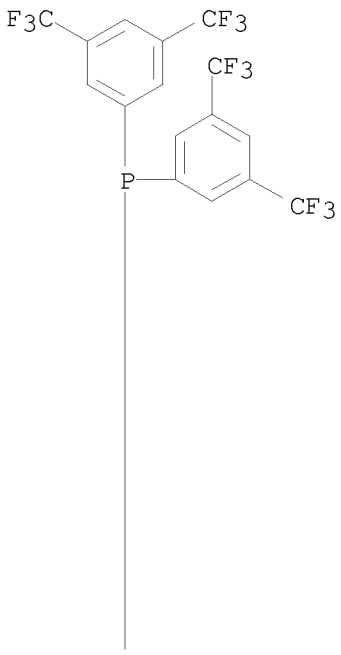


RN 166172-70-9 CAPLUS
CN Ferrocene, 1-[bis[3,5-bis(trifluoromethyl)phenyl]phosphino]-2-[(1R)-1-(dimethylamino)ethyl]-, (1R)- (9CI) (CA INDEX NAME)

PAGE 1-A



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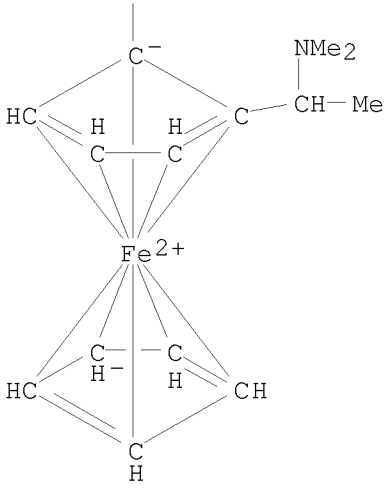
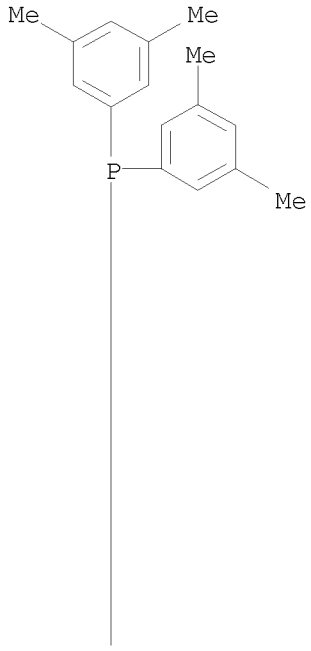


RN 166172-71-0 CAPLUS
CN Ferrocene, 1-[bis(3,5-dimethylphenyl)phosphino]-2-[(1R)-1-(dimethylamino)ethyl]-, (1R)- (9CI) (CA INDEX NAME)

PAGE 1-A



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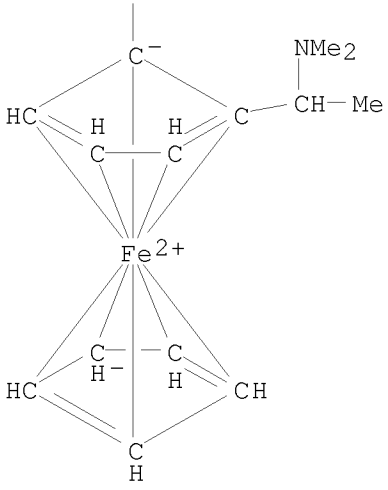

RN 399022-86-7 CAPLUS
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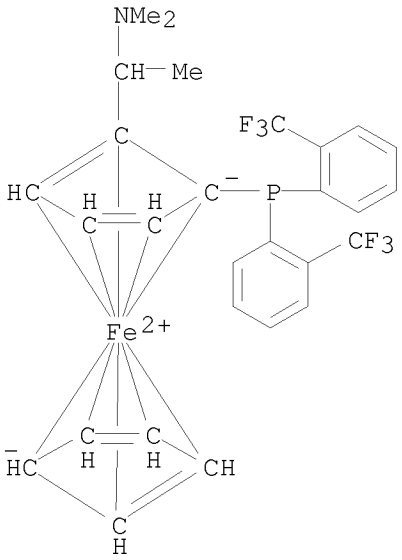

RN 399022-93-6 CAPLUS
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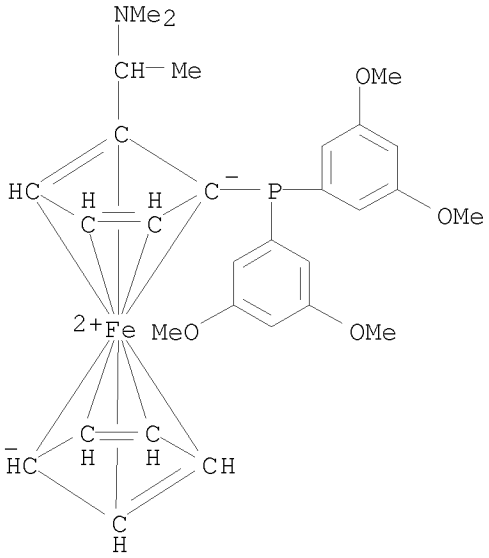

RN 399022-95-8 CAPLUS
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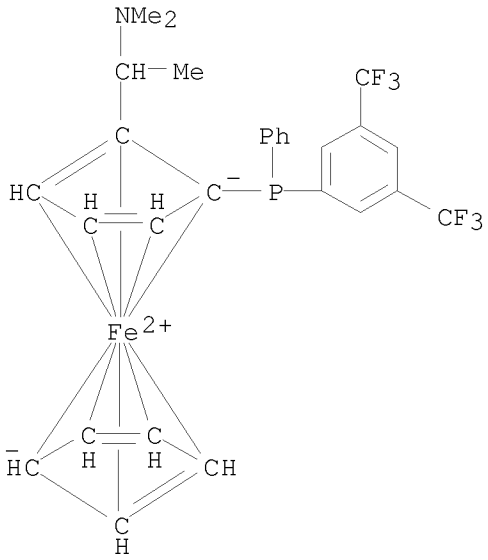
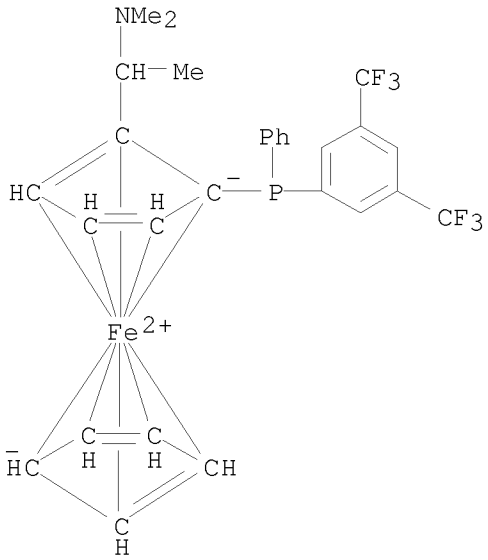


RN 399040-57-4 CAPLUS
CN Ferrocene, 1-[(S)-[3,5-bis(trifluoromethyl)phenyl]phenylphosphino]-2-[(1R)-1-(dimethylamino)ethyl]-, (1R)- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 35 THERE ARE 35 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 7 OF 14 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1993:191947 CAPLUS
DOCUMENT NUMBER: 118:191947
ORIGINAL REFERENCE NO.: 118:32985a,32988a

TITLE: Functionalized organometallic ligand. 1. Synthesis of some ferrocene derivatives of cyclohexyl- and cyclopentadienylphosphines

AUTHOR(S): Kim, Tae Jeong; Kim, Yong Hoon; Kim, Hong Seok; Shim, Sang Chul; Kwak, Young Woo; Cha, Jin Soon; Lee, Hyung Soo; Uhm, Jae Kook; Byun, Sang In

CORPORATE SOURCE: Dep. Ind. Chem., Kyungpook Natl. Univ., Taegu, 702-701, S. Korea

SOURCE: Bulletin of the Korean Chemical Society (1992), 13(6), 588-92
CODEN: BKCSDE; ISSN: 0253-2964

DOCUMENT TYPE: Journal

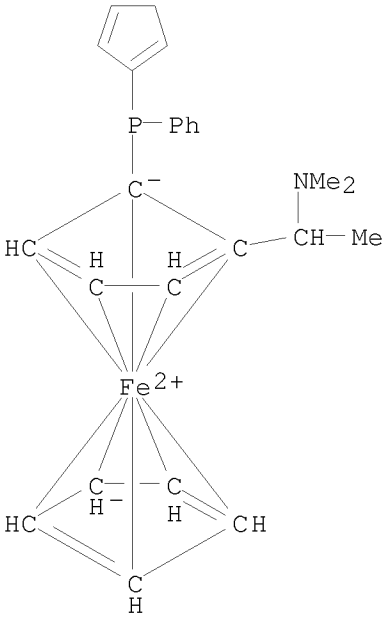
LANGUAGE: English

AB A series of new ferrocene derivs. containing cyclohexylphosphines have been prepared from the reactions of lithioferrocenes with corresponding chlorodicyclohexylphosphines. 1-Diphenylphosphino-1'-dicyclohexylphosphinoferrocene has been prepared from [1]-ferrocenophane via a ring cleavage reaction. Chiral ferrocenylaminophosphines incorporating cyclohexyl- and cyclopentadienylphosphines have also been prepared from the chiral template 2-N,N-dimethylaminoethylferrocene (FA) via stereoselective lithiation followed by phosphination with corresponding R2PCl(R = C6H11, C5H5). The synthesis of cyclopentadienylphosphine derivative of (R)-FA led to the formation of a mixture of four diastereomers due to the presence of three chiral sources in the final product in addition to the fluxional behavior of the η1-C5H5 group attached to the phosphorus. All these new compds. have been characterized by anal. and spectroscopic techniques.

IT 146960-89-6P 146960-92-1P 147020-73-3P
147059-50-5P 147059-51-6P 147126-23-6P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 146960-89-6 CAPLUS

CN Ferrocene, 1-(1,4-cyclopentadien-1-ylphenylphosphino)-2-[1-(dimethylamino)ethyl]-, stereoisomer (9CI) (CA INDEX NAME)



RN 146960-92-1 CAPLUS
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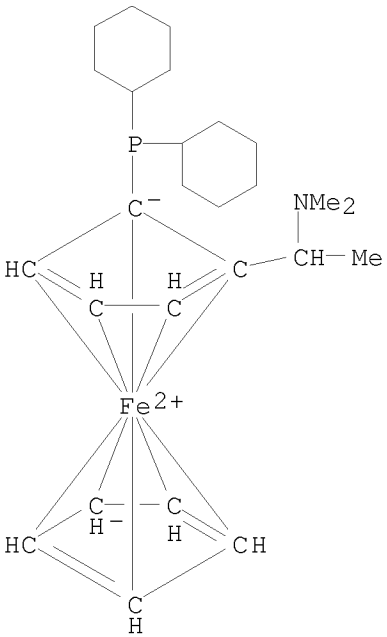
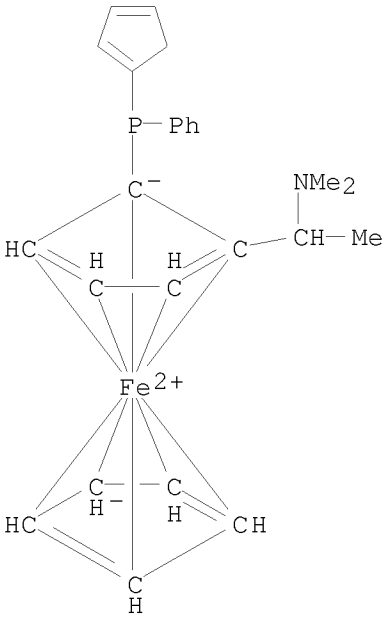


RN 147020-73-3 CAPLUS
CN Ferrocene, 1-(1,3-cyclopentadien-1-ylphenylphosphino)-2-[1-(dimethylamino)ethyl]-, stereoisomer (9CI) (CA INDEX NAME)



RN 147059-50-5 CAPLUS
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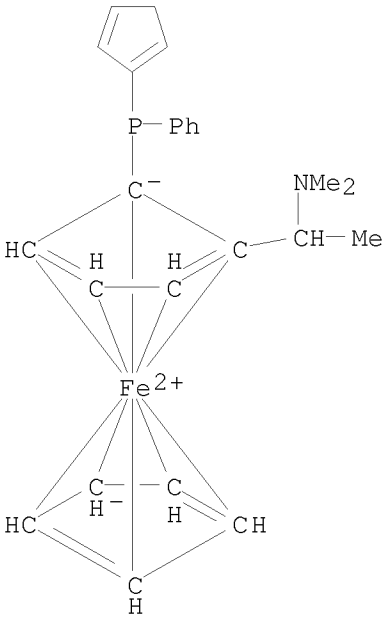

RN 147059-51-6 CAPLUS
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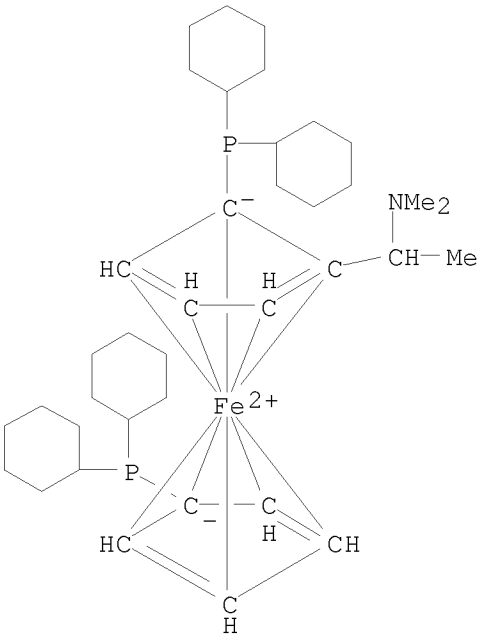
, (2R)- (9CI) (CA INDEX NAME)



RN 147126-23-6 CAPLUS
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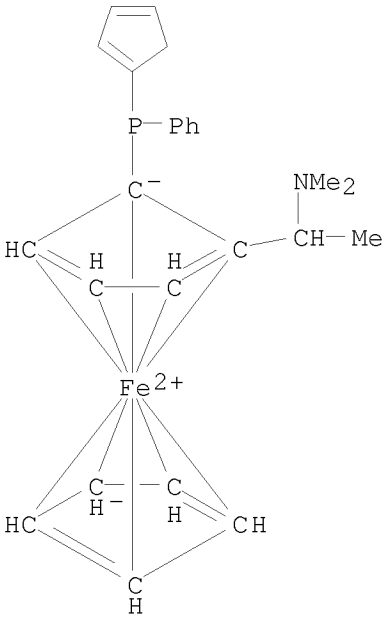

L11 ANSWER 8 OF 14 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1992:41678 CAPLUS
DOCUMENT NUMBER: 116:41678
ORIGINAL REFERENCE NO.: 116:7161a,7164a
TITLE: Chiral cooperativity: the effect of distant chiral centers in ferrocenylamine ligands upon enantioselectivity in the gold(I)-catalyzed aldol reaction
AUTHOR(S): Pastor, Stephen D.; Togni, Antonio
CORPORATE SOURCE: Cent. Res. Lab., Ciba-Geigy A.-G., Basel, CH-4002, Switz.
SOURCE: Helvetica Chimica Acta (1991), 74(5), 905-33
CODEN: HCACAV; ISSN: 0018-019X
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 116:41678
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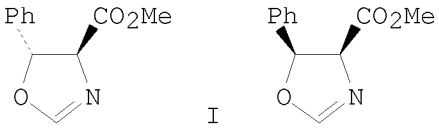
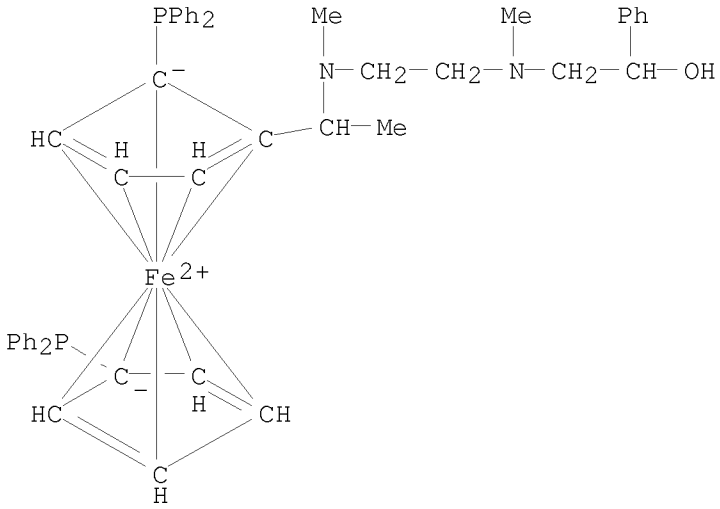


I

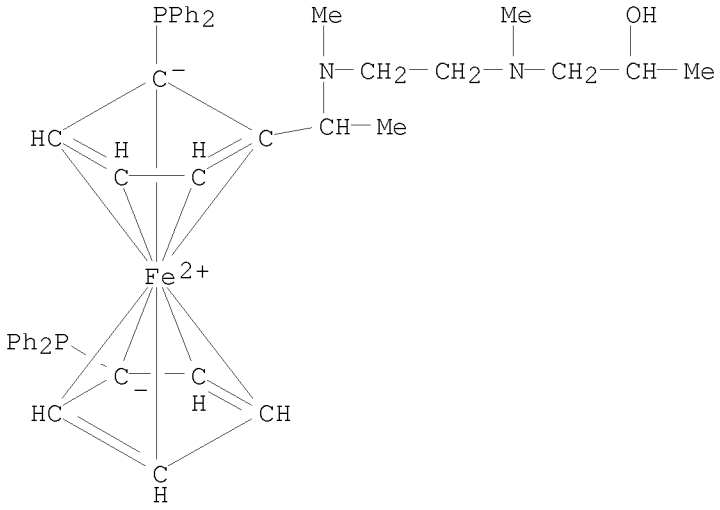
II

AB Long-range chiral cooperativity in enantiomerically pure ferrocenylamine ligands containing both planar and multiple centers of chirality (multiple stereogenic C-atoms) was demonstrated in the Au(I)-catalyzed reaction of aldehydes and isocyano esters. Synthetic methodol. was developed for the synthesis of ferrocenylamine ligands with two and three chiral centers of known absolute configuration in the C-side chain in addition to the planar chirality of the mol. The diastereo- and enantioselectivity of the Au(I)-catalyzed preparation of the trans- and cis-dihydrooxazoles I and II, resp., from benzaldehyde and Me isocyanoacetate depend upon the sequence of chirality (absolute configuration of the chiral centers) in the side chain of the ferrocenylamine ligands. Particularly significant effects were observed upon the enantioselectivity for the minor cis-dihydrooxazole II, for which, in certain cases, resulted in a change in the enantiomeric dihydrooxazole II produced in excess with a change in the absolute configuration of a distant chiral center. Significant effects upon diastereo- and enantioselectivity were observed when chiral ferrocenylamine ligands containing free OH groups were utilized. Using ligands containing a free OH group gave II with an absolute configuration opposite to that produced by the corresponding ester and carbamate derivs. The possible mechanisms for the transmission of chiral information in the proposed stereoselective transition state were discussed, including both the formation of a stereogenic N-atom and steric effects based upon Newman's rule of six.
IT 136723-46-1P 136735-16-5P 136780-05-7P
136780-06-8P 136780-07-9P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and addition reaction of, with isocyanates)
RN 136723-46-1 CAPLUS
CN Ferrocene, 1,1'-bis(diphenylphosphino)-2-[1-[[2-[(2-hydroxy-2-

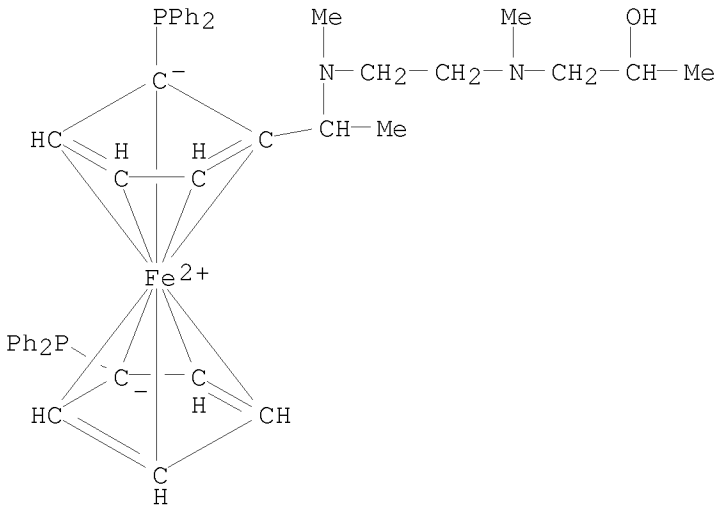
phenylethyl)methylamino]ethyl]methylamino]ethyl]-, stereoisomer (9CI) (CA INDEX NAME)



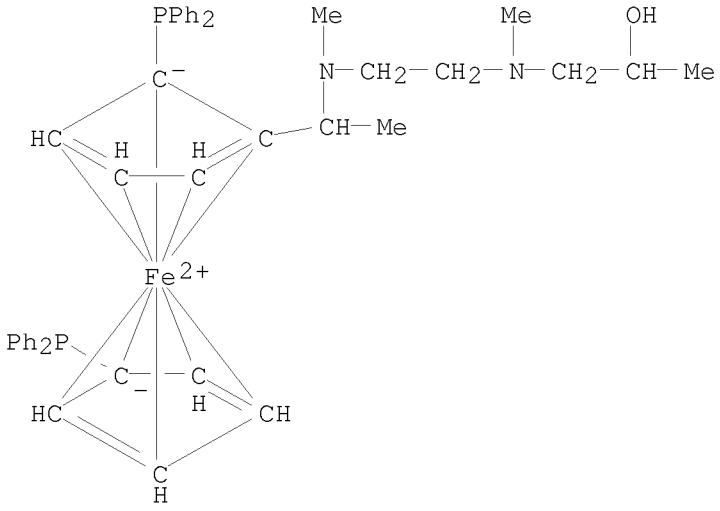
RN 136735-16-5 CAPLUS
CN Ferrocene, 1,1'-bis(diphenylphosphino)-2-[1-[[2-[(2-hydroxypropyl)methylamino]ethyl]methylamino]ethyl]-, stereoisomer (9CI) (CA INDEX NAME)



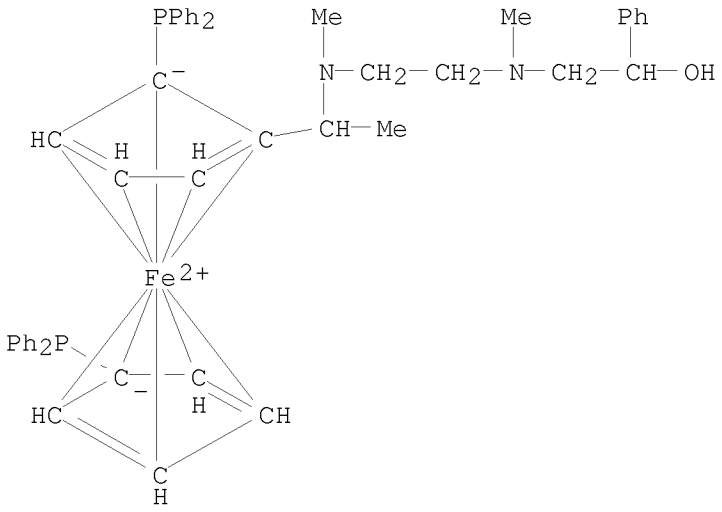
RN 136780-05-7 CAPLUS
CN Ferrocene, 1,1'-bis(diphenylphosphino)-2-[1-[[2-[(2-hydroxypropyl)methylamino]ethyl]methylamino]ethyl]-, stereoisomer (9CI) (CA INDEX NAME)



RN 136780-06-8 CAPLUS
CN Ferrocene, 1,1'-bis(diphenylphosphino)-2-[1-[[2-[(2-hydroxypropyl)methylamino]ethyl]methylamino]ethyl]-, stereoisomer (9CI) (CA INDEX NAME)



RN 136780-07-9 CAPLUS
CN Ferrocene, 1,1'-bis(diphenylphosphino)-2-[1-[[2-[(2-hydroxy-2-phenylethyl)methylamino]ethyl]methylamino]ethyl]-, stereoisomer (9CI) (CA INDEX NAME)



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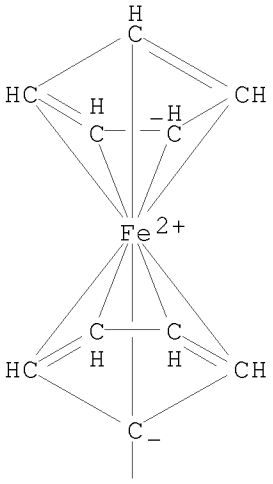
136638-04-5 136638-09-0 136652-21-6
136652-22-7 136652-23-8 136652-24-9
136652-25-0 136723-47-2 136734-78-6
136735-20-1 136735-21-2 136735-22-3
136735-23-4 136735-24-5 136735-25-6
136735-26-7 136735-27-8 136735-28-9
136779-98-1 136779-99-2 136780-01-3
136780-02-4 136780-08-0 136780-09-1
136781-53-8 138332-67-9
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation and gold-catalyzed aldol reaction of benzaldehyde with Et isocyanoacetate in presence of, stereochem. of)

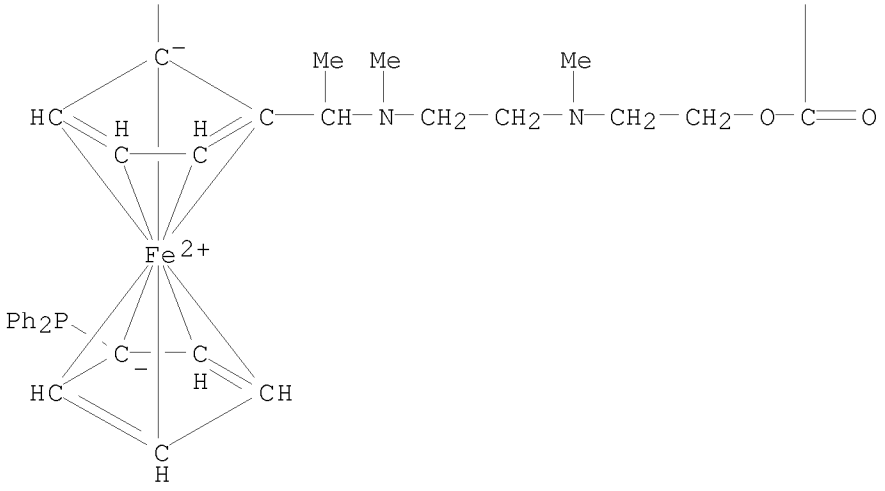
RN 136637-98-4 CAPLUS

CN Ferrocene, 1,1'-bis(diphenylphosphino)-2-[1-[[2-[[2-[(ferrocenylcarbonyl)oxy]ethyl]methylamino]ethyl]methylamino]ethyl]-, [R-(R*,R*)]- (9CI) (CA INDEX NAME)

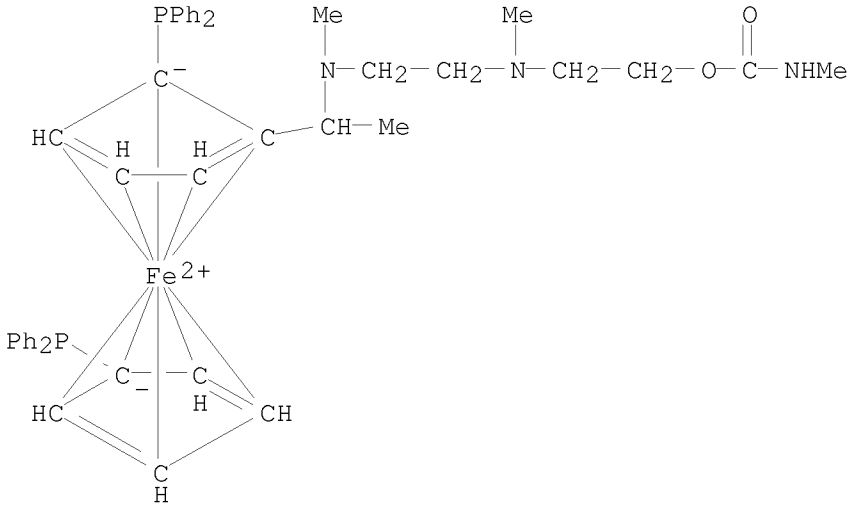
PAGE 1-A



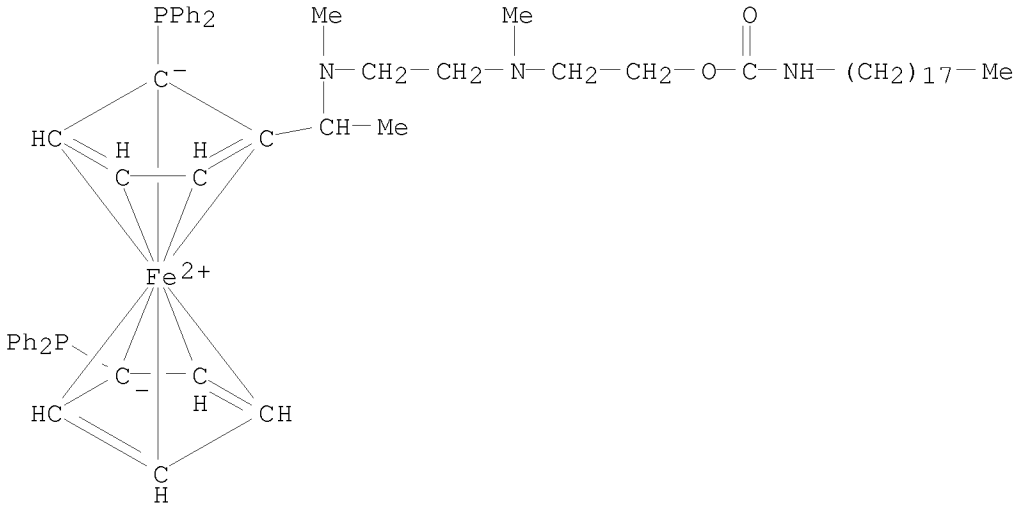
PAGE 2-A



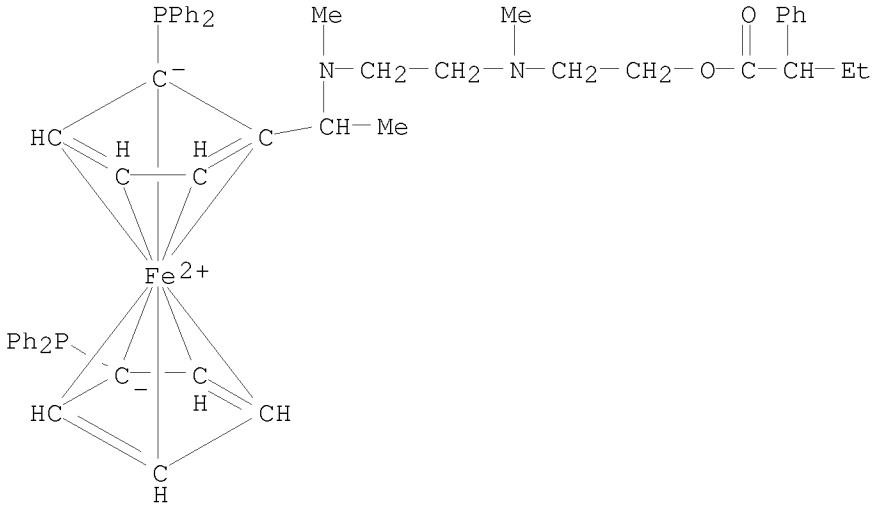
RN 136637-99-5 CAPLUS
CN Ferrocene, 1,1'-bis(diphenylphosphino)-2-[1-[methyl[2-[methyl[2-[[(methylamino)carbonyl]oxy]ethyl]amino]ethyl]amino]ethyl]-, [R-(R*,R*)]-(9CI) (CA INDEX NAME)



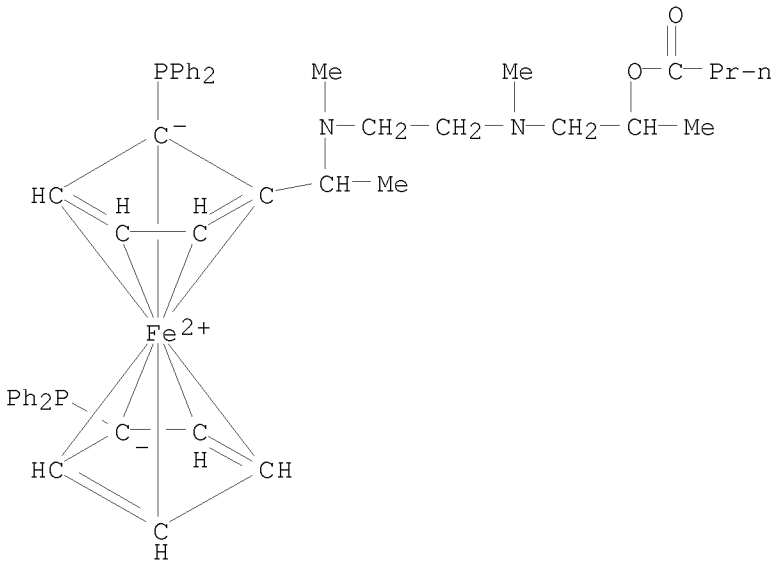
RN 136638-01-2 CAPLUS
CN Ferrocene, 1,1'-bis(diphenylphosphino)-2-[1-[methyl[2-[methyl[2-[[(octadecylamino)carbonyl]oxy]ethyl]amino]ethyl]amino]ethyl]-, [R-(R*,R*)]- (9CI) (CA INDEX NAME)



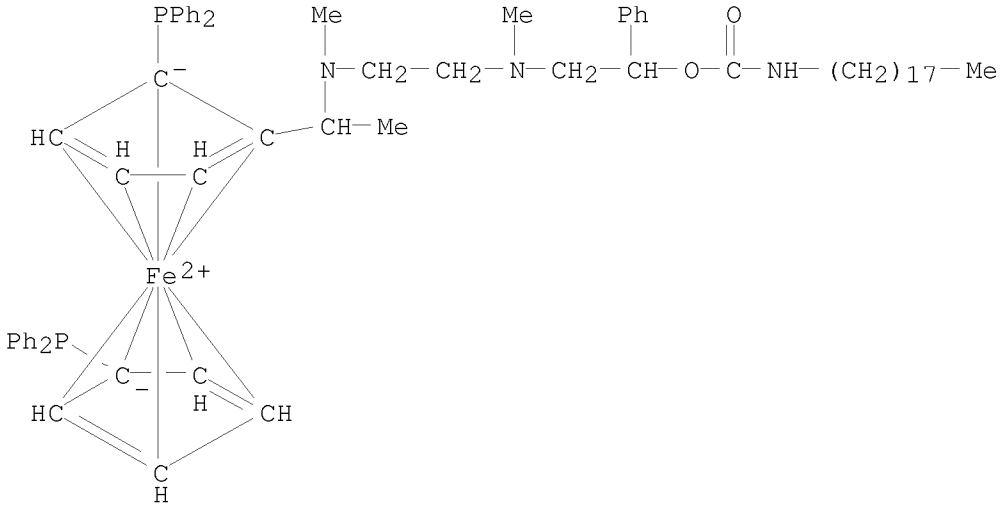
RN 136638-04-5 CAPLUS
CN Ferrocene, 1,1'-bis(diphenylphosphino)-2-[1-[methyl[2-[methyl[2-(1-oxo-2-phenylbutoxy)ethyl]amino]ethyl]amino]ethyl]-, stereoisomer (9CI) (CA INDEX NAME)



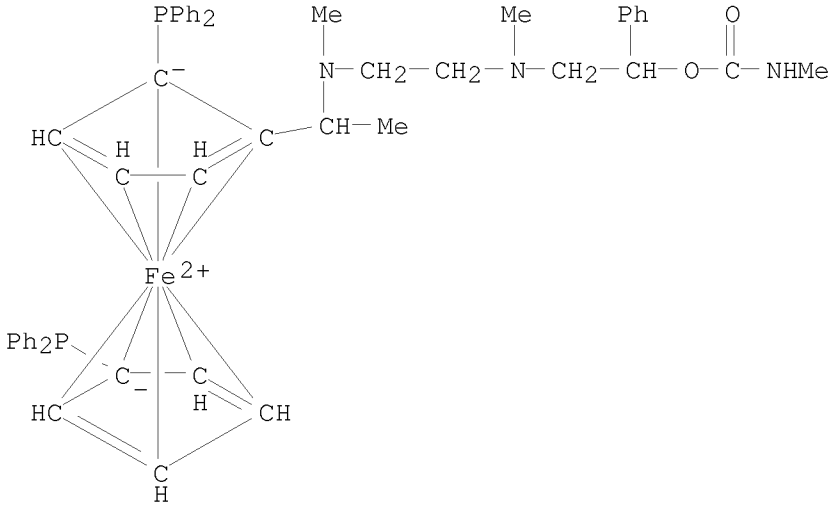
RN 136638-09-0 CAPLUS
CN Ferrocene, 1,1'-bis(diphenylphosphino)-2-[1-[methyl[2-[methyl[2-(1-oxobutoxy)propyl]amino]ethyl]amino]ethyl]-, stereoisomer (9CI) (CA INDEX NAME)



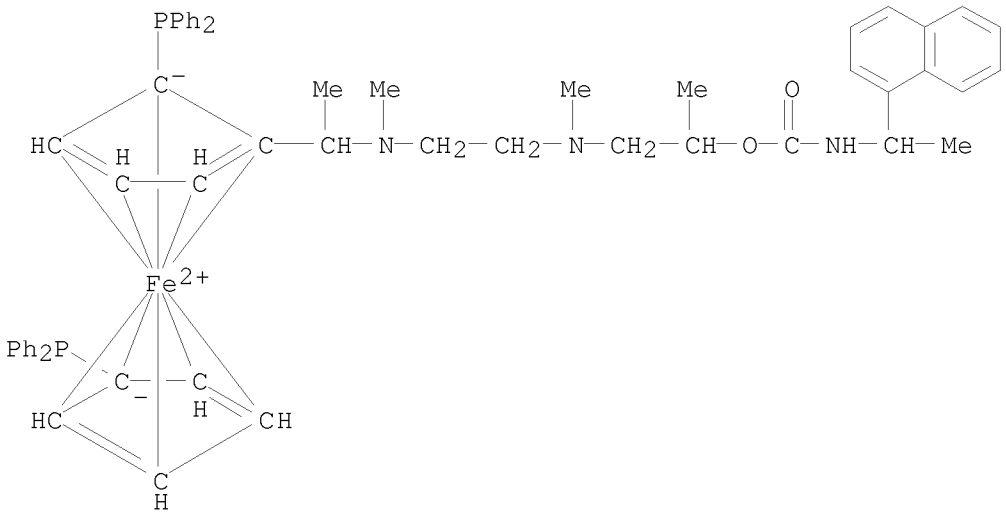
RN 136652-21-6 CAPLUS
CN Ferrocene, 1,1'-bis(diphenylphosphino)-2-(1,2,5-trimethyl-9-oxo-7-phenyl-8-oxa-2,5,10-triazaoctacos-1-yl)-, stereoisomer (9CI) (CA INDEX NAME)



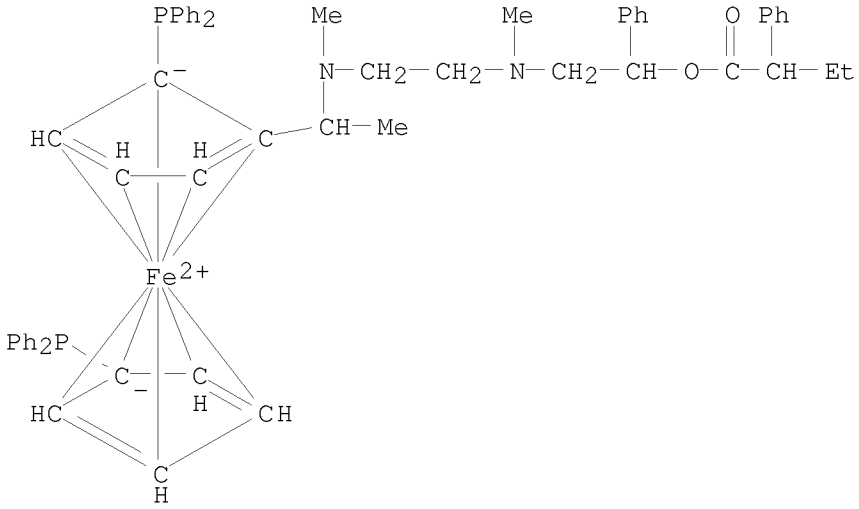
RN 136652-22-7 CAPLUS
CN Ferrocene, 1,1'-bis(diphenylphosphino)-2-(1,2,5-trimethyl-9-oxo-7-phenyl-8-oxa-2,5,10-triazaundec-1-yl)-, stereoisomer (9CI) (CA INDEX NAME)



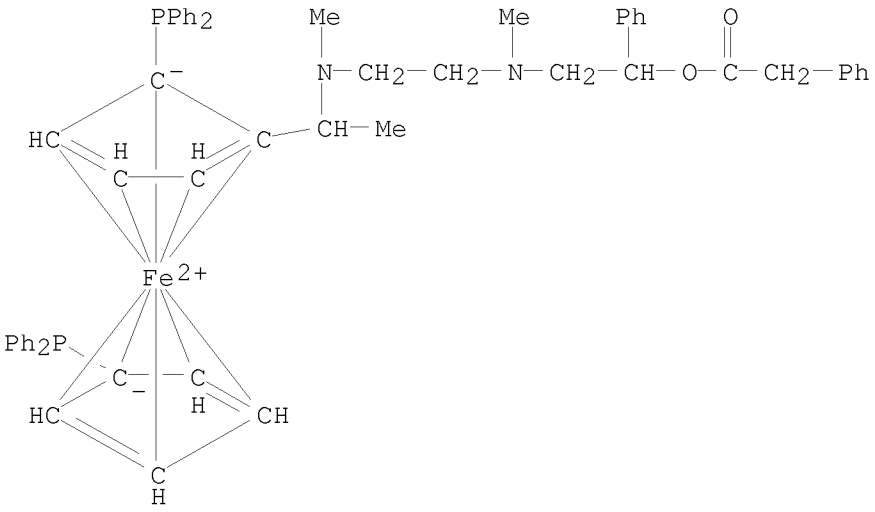
RN 136652-23-8 CAPLUS
CN Ferrocene, 1,1'-bis(diphenylphosphino)-2-[1,2,5,7-tetramethyl-11-(1-naphthalenyl)-9-oxo-8-oxa-2,5,10-triazadodec-1-yl]-, stereoisomer (9CI) (CA INDEX NAME)



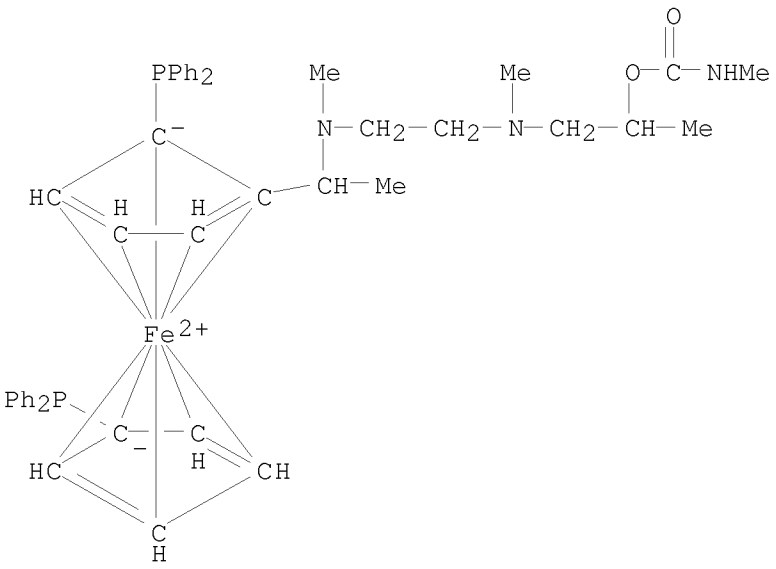
RN 136652-24-9 CAPLUS
CN Ferrocene, 1,1'-bis(diphenylphosphino)-2-[1-[methyl[2-[methyl[2-(1-oxo-2-phenylbutoxy)-2-phenylethyl]amino]ethyl]amino]ethyl]-, stereoisomer (9CI) (CA INDEX NAME)



RN 136652-25-0 CAPLUS
CN Ferrocene, 1,1'-bis(diphenylphosphino)-2-[1-[methyl[2-[methyl[2-phenyl-2-[(phenylacetyl)oxy]ethyl]amino]ethyl]amino]ethyl]-, stereoisomer (9CI) (CA INDEX NAME)



RN 136723-47-2 CAPLUS
CN Ferrocene, 1,1'-bis(diphenylphosphino)-2-(1,2,5,7-tetramethyl-9-oxo-8-oxa-2,5,10-triazaundec-1-yl)-, stereoisomer (9CI) (CA INDEX NAME)



RN 136734-78-6 CAPLUS
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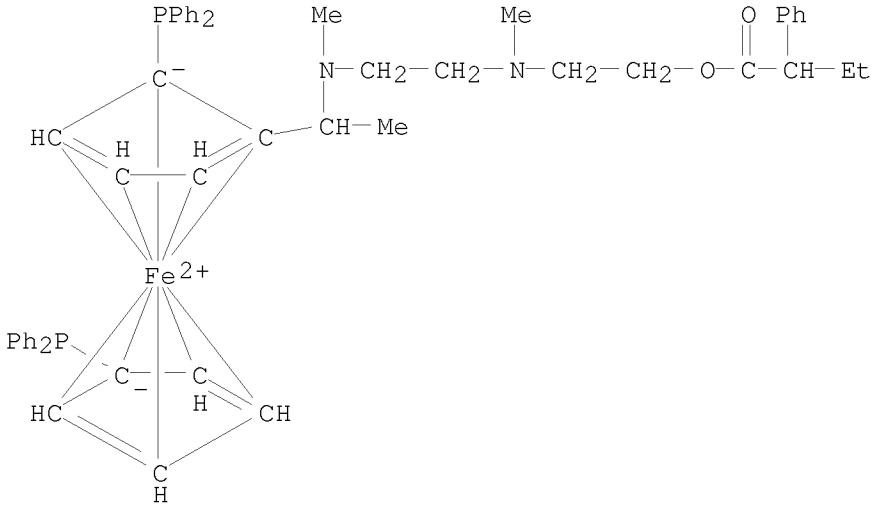

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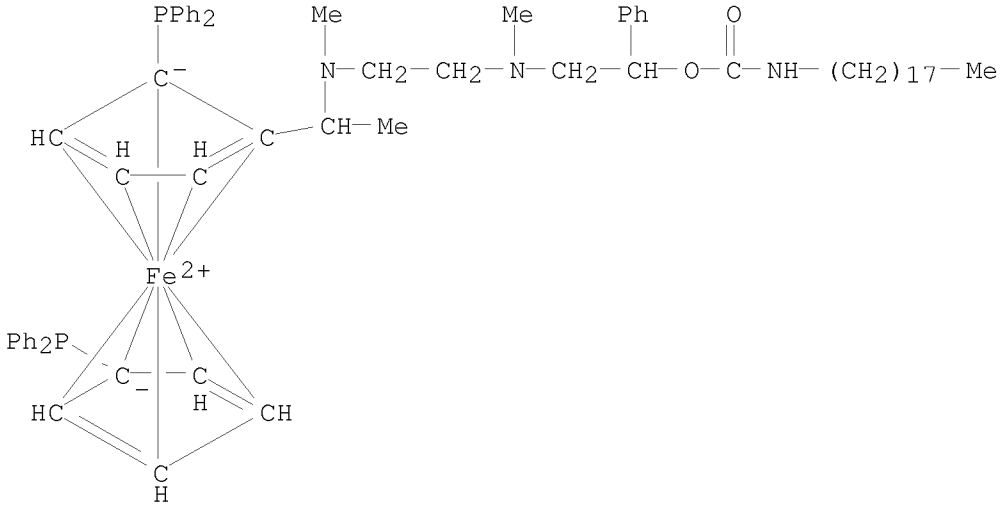
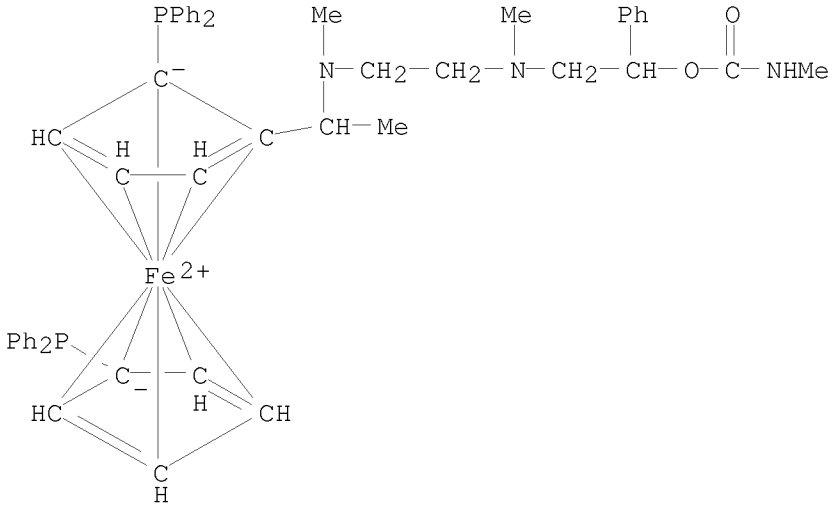
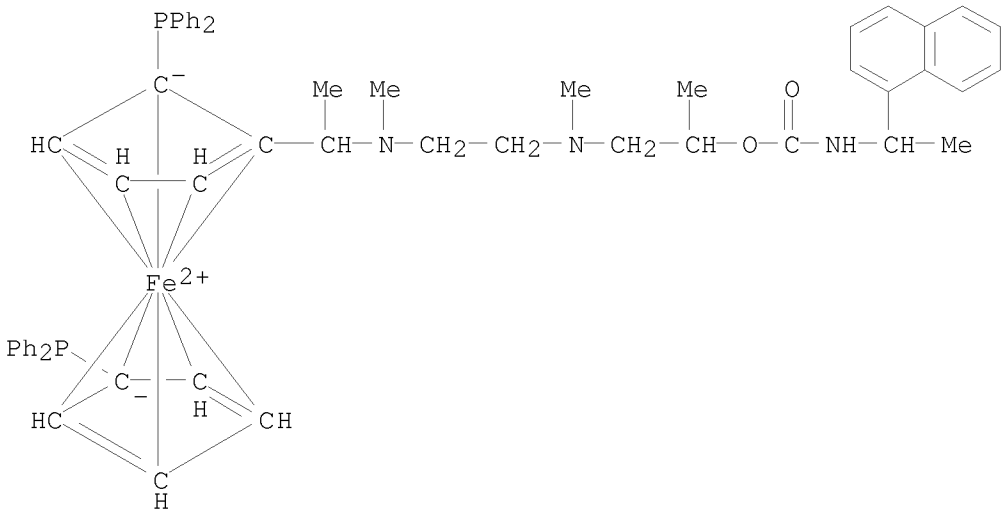


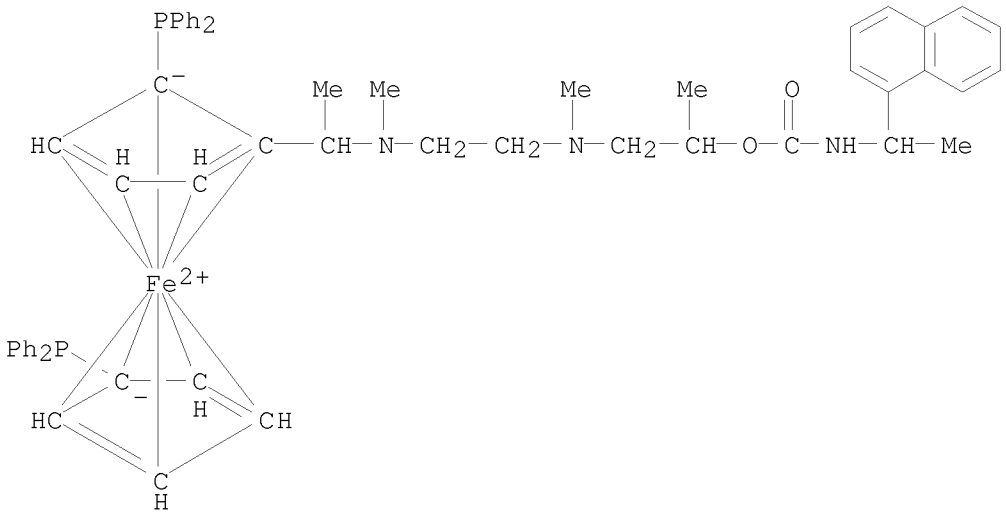
RN 136735-21-2 CAPLUS
CN Ferrocene, 1,1'-bis(diphenylphosphino)-2-(1,2,5-trimethyl-9-oxo-7-phenyl-8-oxa-2,5,10-triazaundec-1-yl)-, stereoisomer (9CI) (CA INDEX NAME)



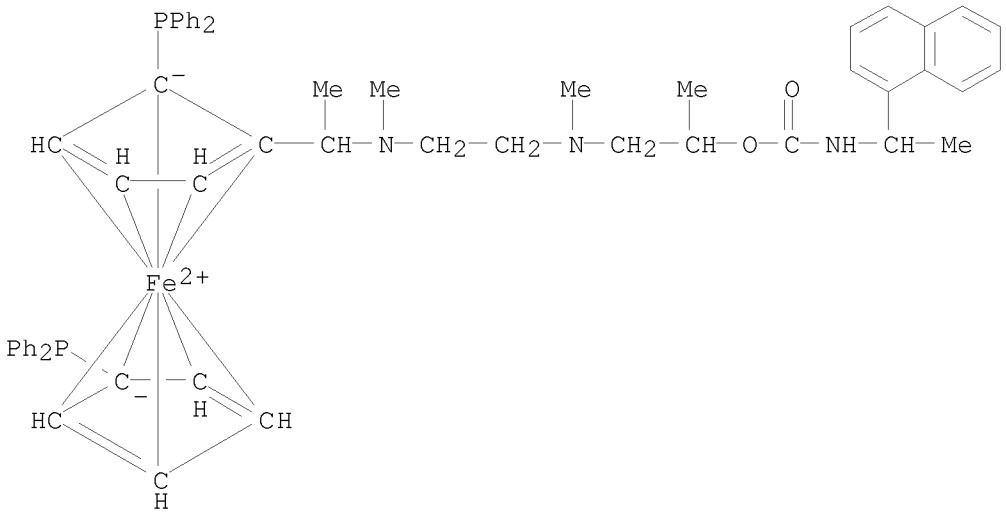
RN 136735-22-3 CAPLUS
CN Ferrocene, 1,1'-bis(diphenylphosphino)-2-[1,2,5,7-tetramethyl-11-(1-naphthalenyl)-9-oxo-8-oxa-2,5,10-triazadodec-1-yl]-, stereoisomer (9CI) (CA INDEX NAME)



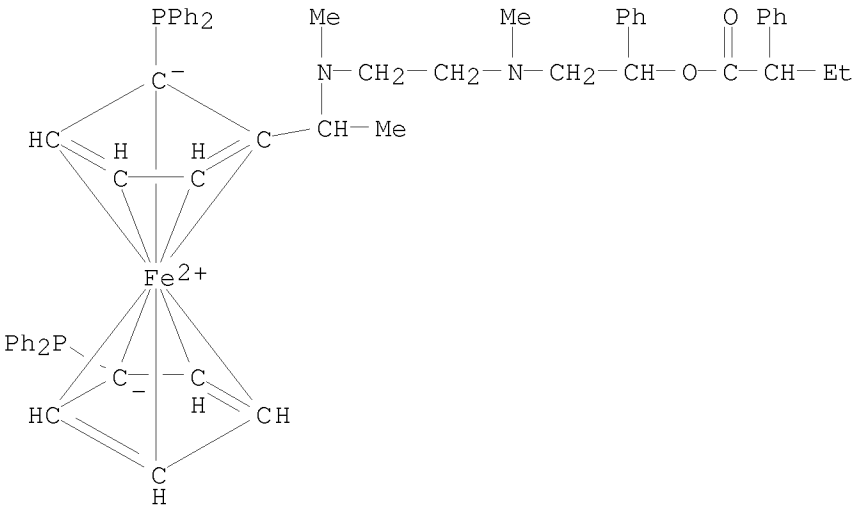
RN 136735-23-4 CAPLUS
CN Ferrocene, 1,1'-bis(diphenylphosphino)-2-[1,2,5,7-tetramethyl-11-(1-naphthalenyl)-9-oxo-8-oxa-2,5,10-triazadodec-1-yl]-, stereoisomer (9CI) (CA INDEX NAME)



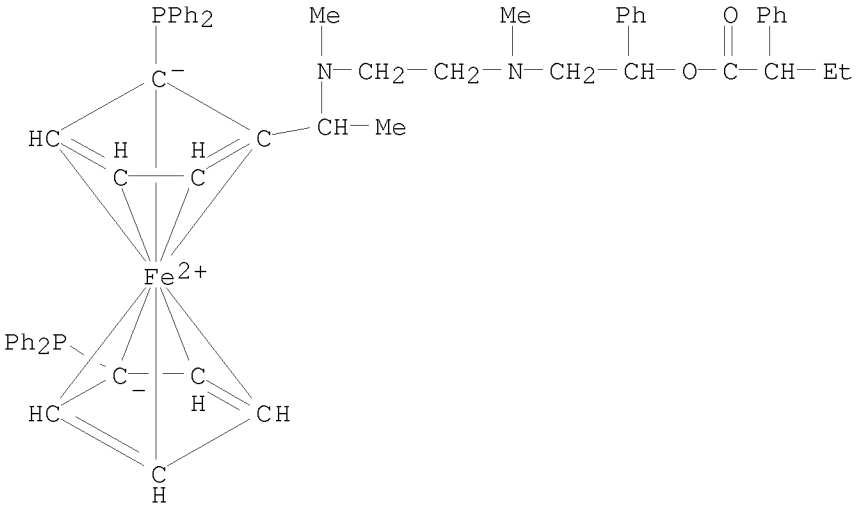
RN 136735-24-5 CAPLUS
CN Ferrocene, 1,1'-bis(diphenylphosphino)-2-[1,2,5,7-tetramethyl-11-(1-naphthalenyl)-9-oxo-8-oxa-2,5,10-triazadodec-1-yl]-, stereoisomer (9CI) (CA INDEX NAME)



RN 136735-25-6 CAPLUS
CN Ferrocene, 1,1'-bis(diphenylphosphino)-2-[1-[methyl[2-[methyl[2-(1-oxo-2-phenylbutoxy)-2-phenylethyl]amino]ethyl]amino]ethyl]-, stereoisomer (9CI) (CA INDEX NAME)



RN 136735-26-7 CAPLUS
CN Ferrocene, 1,1'-bis(diphenylphosphino)-2-[1-[methyl[2-[methyl[2-(1-oxo-2-phenylbutoxy)-2-phenylethyl]amino]ethyl]amino]ethyl]-, stereoisomer (9CI) (CA INDEX NAME)



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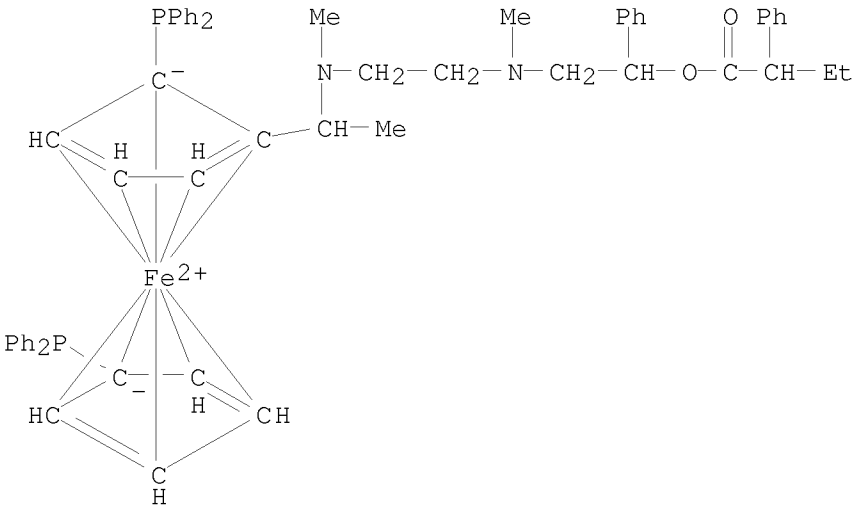
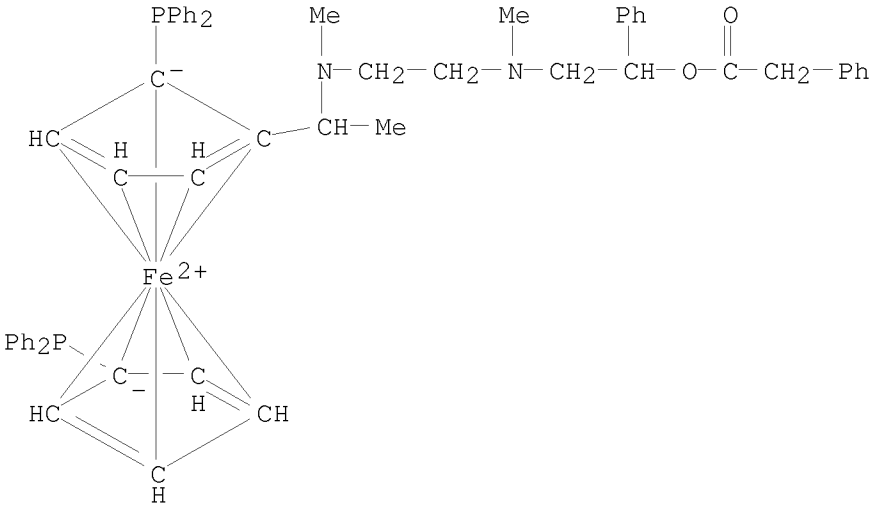
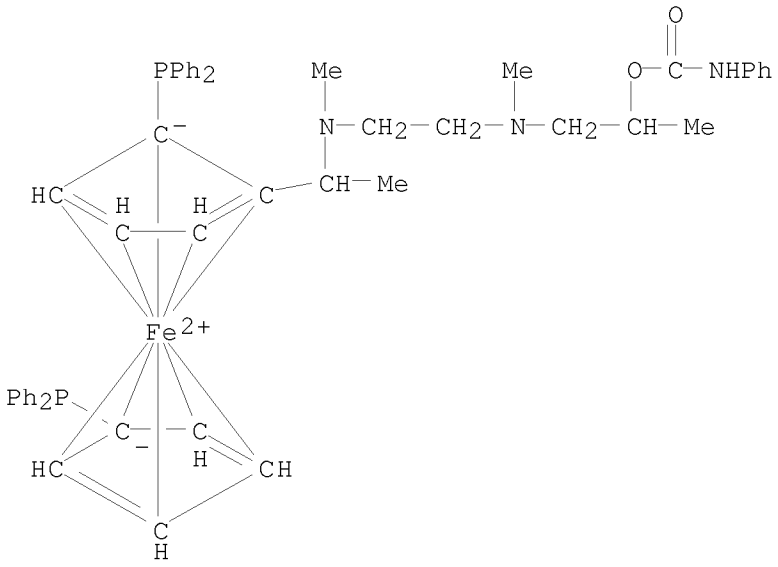


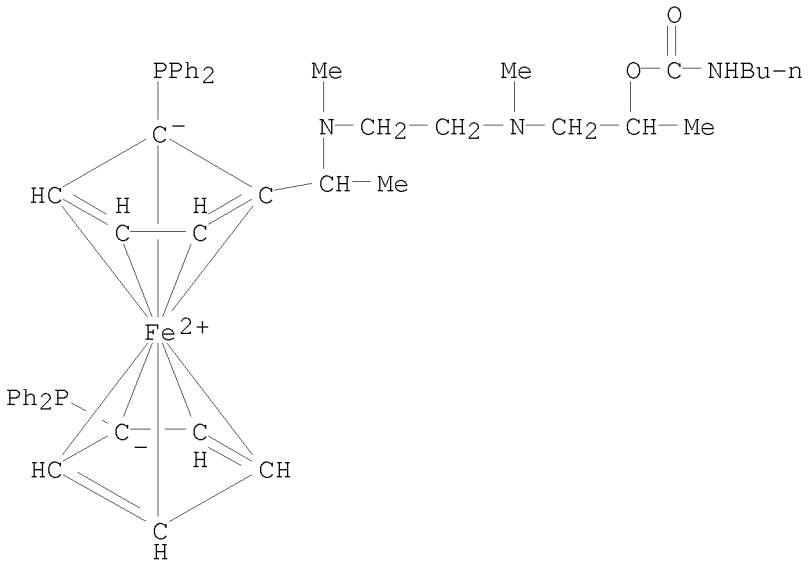
RN 136735-28-9 CAPLUS
CN Ferrocene, 1,1'-bis(diphenylphosphino)-2-[1-[methyl[2-[methyl[2-phenyl-2-[(phenylacetyl)oxy]ethyl]amino]ethyl]amino]ethyl]-, stereoisomer (9CI) (CA INDEX NAME)



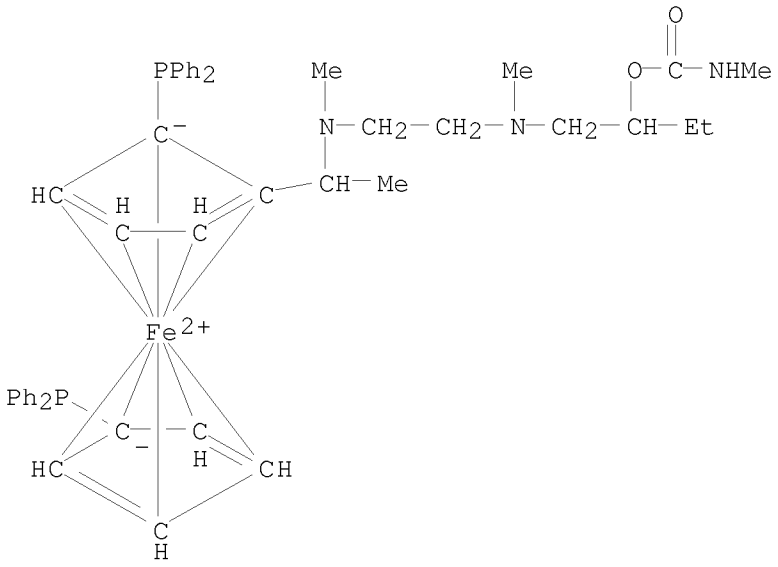
RN 136779-98-1 CAPLUS
CN Ferrocene, 1,1'-bis(diphenylphosphino)-2-[1-[methyl[2-[methyl[2-[[(phenylamino)carbonyl]oxy]propyl]amino]ethyl]amino]ethyl]-, stereoisomer (9CI) (CA INDEX NAME)



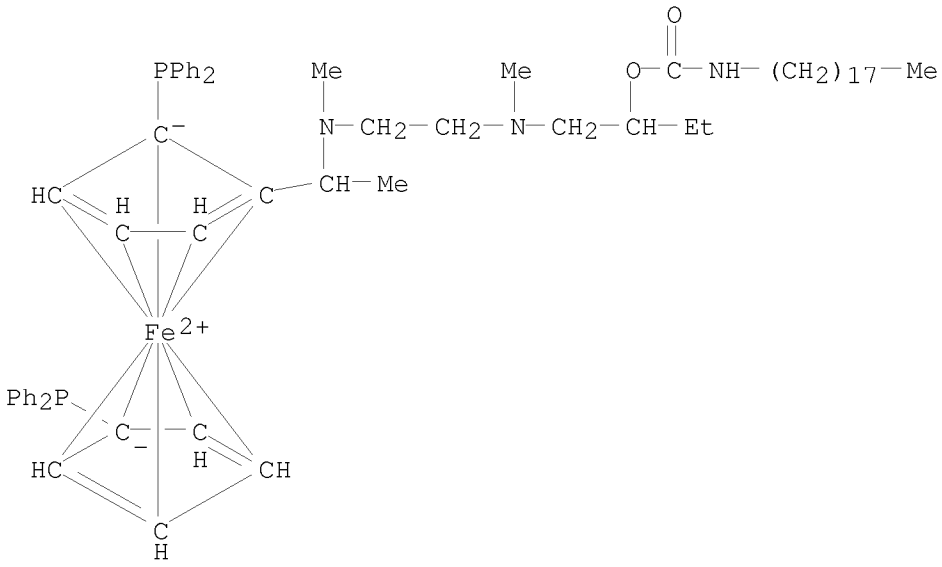
RN 136779-99-2 CAPLUS
CN Ferrocene, 1,1'-bis(diphenylphosphino)-2-(1,2,5,7-tetramethyl-9-oxo-8-oxa-2,5,10-triazatetradec-1-yl)-, stereoisomer (9CI) (CA INDEX NAME)



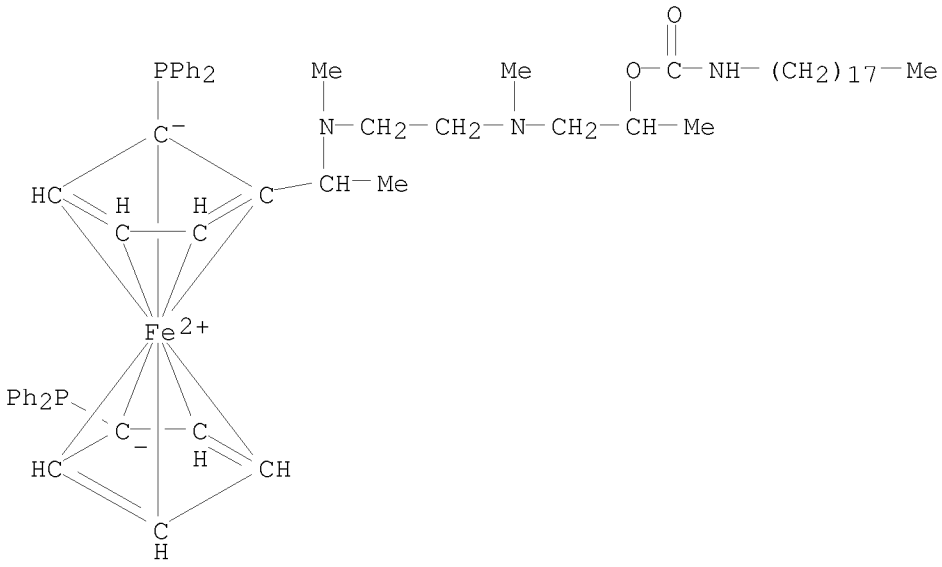
RN 136780-01-3 CAPLUS
CN Ferrocene, 1,1'-bis(diphenylphosphino)-2-(7-ethyl-1,2,5-trimethyl-9-oxo-8-oxa-2,5,10-triazaundec-1-yl)-, stereoisomer (9CI) (CA INDEX NAME)



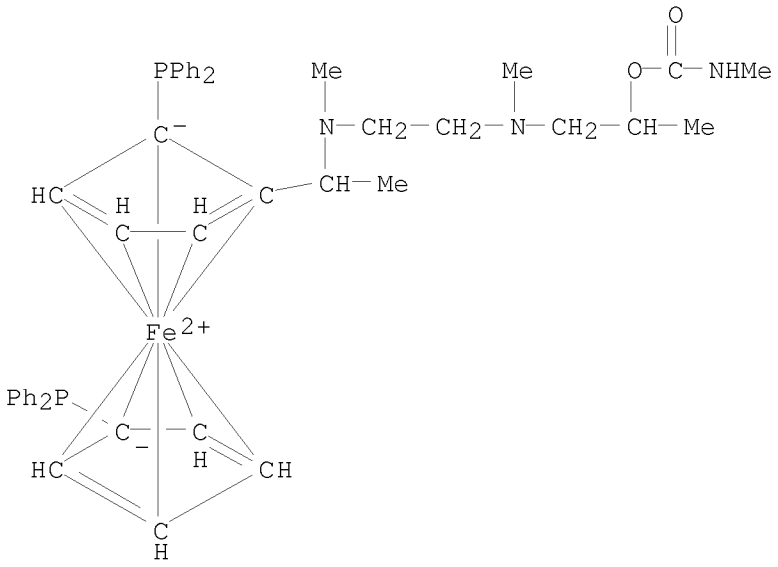
RN 136780-02-4 CAPLUS
CN Ferrocene, 1,1'-bis(diphenylphosphino)-2-(7-ethyl-1,2,5-trimethyl-9-oxo-8-oxa-2,5,10-triazaoctacos-1-yl)-, stereoisomer (9CI) (CA INDEX NAME)



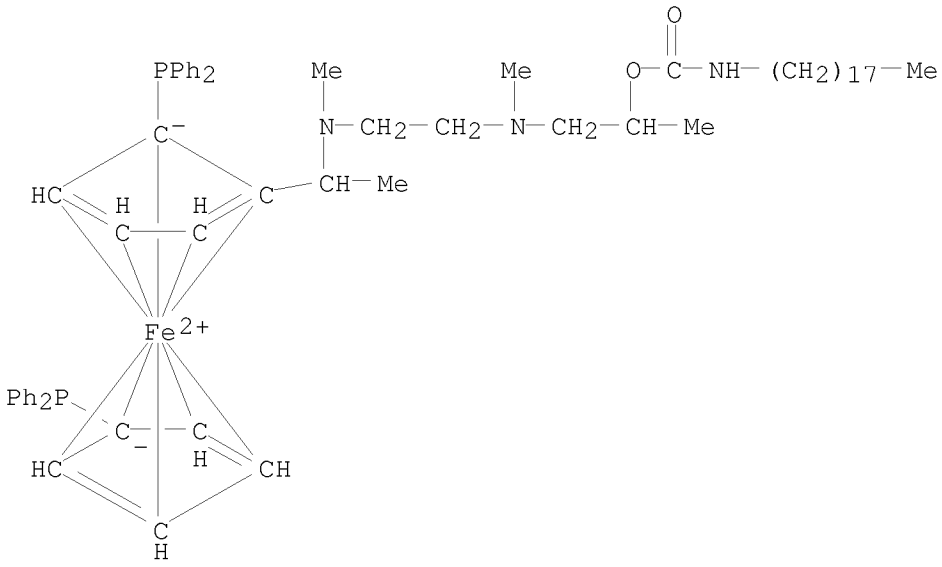
RN 136780-08-0 CAPLUS
CN Ferrocene, 1,1'-bis(diphenylphosphino)-2-(1,2,5,7-tetramethyl-9-oxo-8-oxa-2,5,10-triazaoctacos-1-yl)-, stereoisomer (9CI) (CA INDEX NAME)



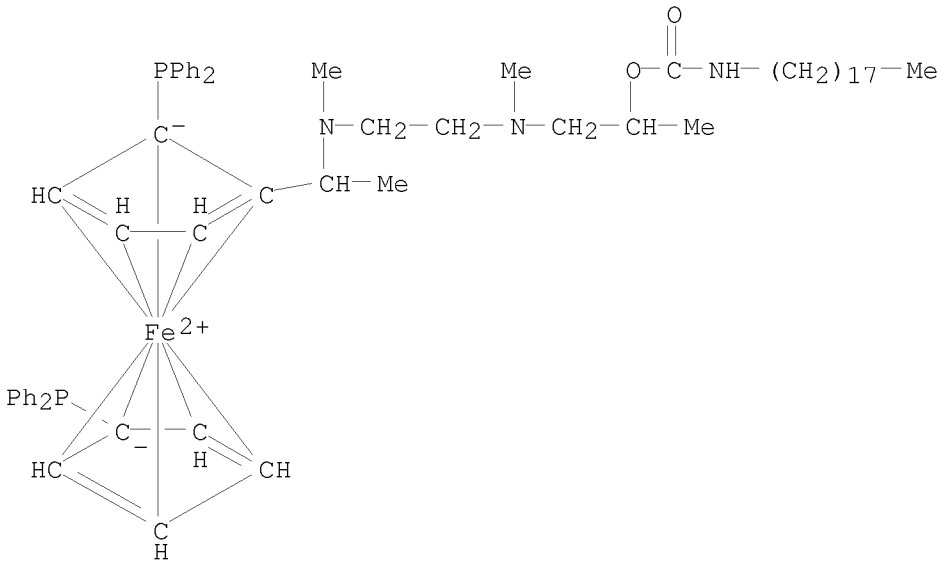
RN 136780-09-1 CAPLUS
CN Ferrocene, 1,1'-bis(diphenylphosphino)-2-(1,2,5,7-tetramethyl-9-oxo-8-oxa-2,5,10-triazaundec-1-yl)-, stereoisomer (9CI) (CA INDEX NAME)



RN 136781-53-8 CAPLUS
CN Ferrocene, 1,1'-bis(diphenylphosphino)-2-(1,2,5,7-tetramethyl-9-oxo-8-oxa-2,5,10-triazaoctacos-1-yl)-, stereoisomer (9CI) (CA INDEX NAME)

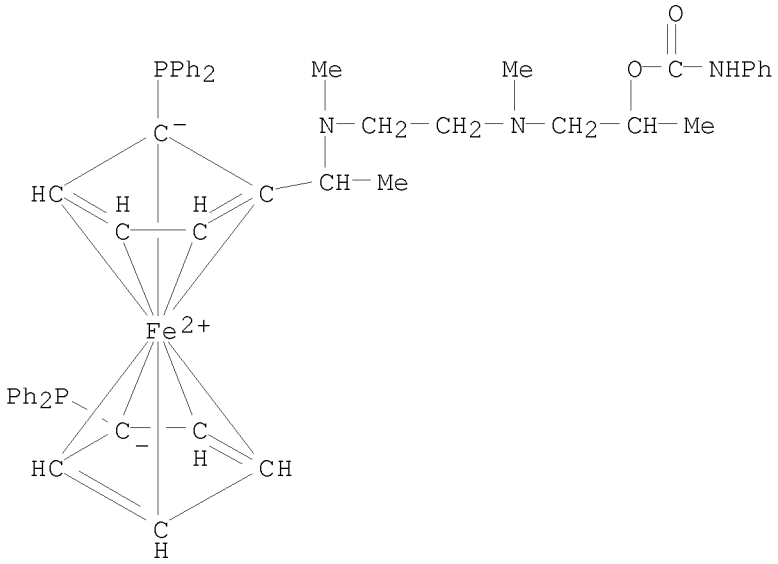


RN 138332-67-9 CAPLUS
CN Ferrocene, 1,1'-bis(diphenylphosphino)-2-(1,2,5,7-tetramethyl-9-oxo-8-oxa-2,5,10-triazaoctacos-1-yl)-, stereoisomer (9CI) (CA INDEX NAME)

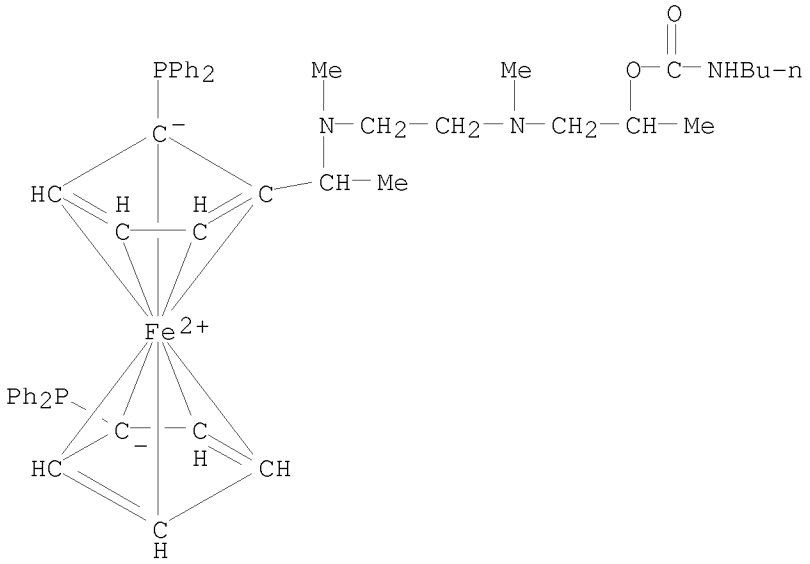


IT 136652-18-1P 136652-19-2P 136652-20-5P
136695-83-5P 136695-84-6P 136735-17-6P
136735-19-8P 136735-72-3P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 136652-18-1 CAPLUS
CN Ferrocene, 1,1'-bis(diphenylphosphino)-2-[1-[methyl[2-[methyl[2-

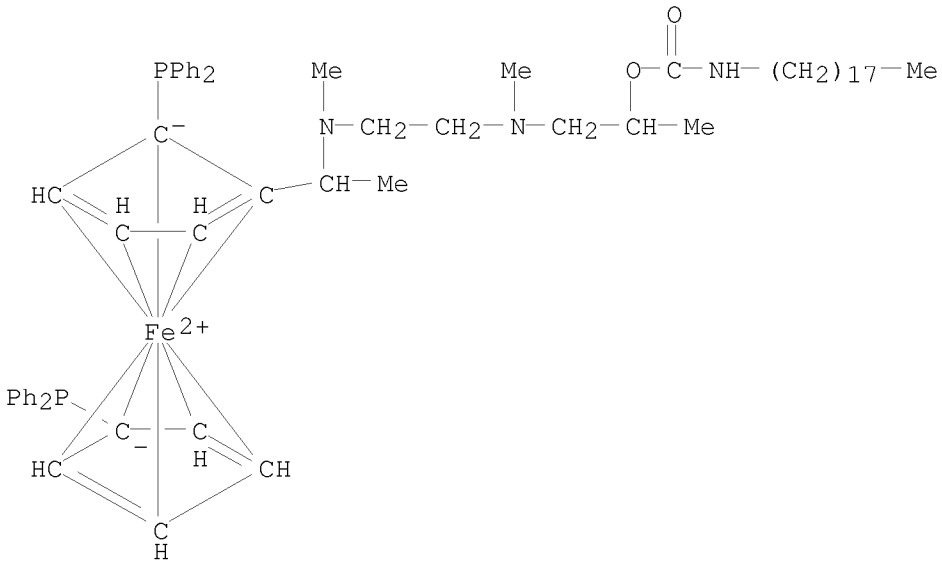
[[(phenylamino)carbonyl]oxy]propyl]amino]ethyl]amino]ethyl]-, stereoisomer (9CI) (CA INDEX NAME)



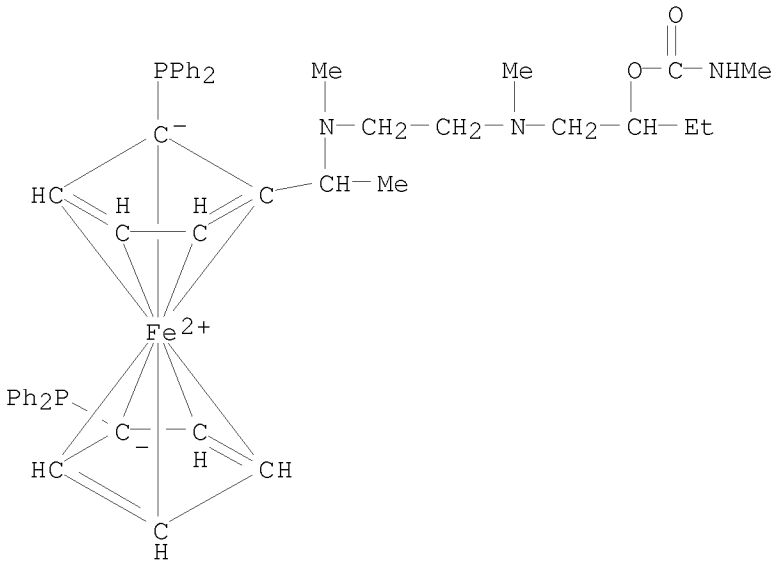
RN 136652-19-2 CAPLUS
CN Ferrocene, 1,1'-bis(diphenylphosphino)-2-(1,2,5,7-tetramethyl-9-oxo-8-oxa-2,5,10-triazatetradec-1-yl)-, stereoisomer (9CI) (CA INDEX NAME)



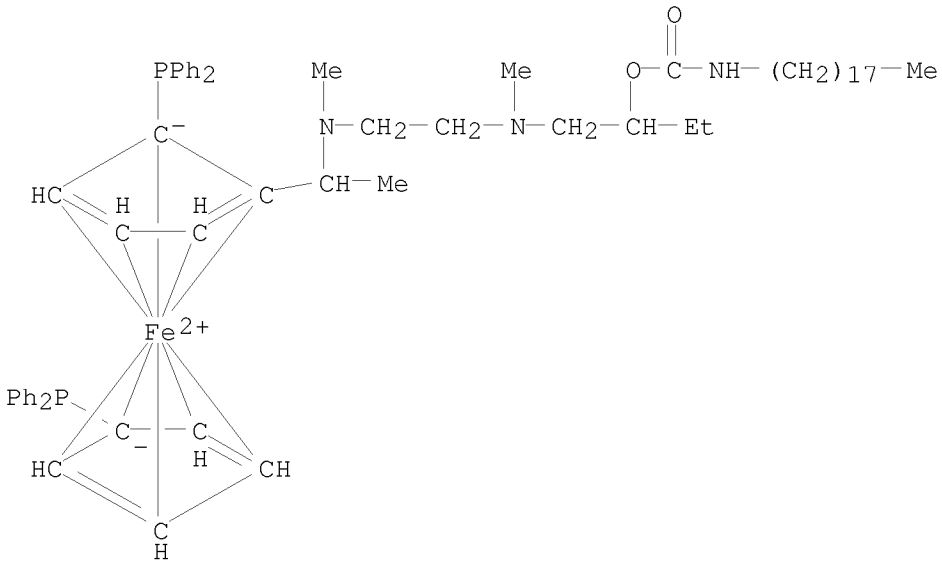
RN 136652-20-5 CAPLUS
CN Ferrocene, 1,1'-bis(diphenylphosphino)-2-(1,2,5,7-tetramethyl-9-oxo-8-oxa-2,5,10-triazaoctacos-1-yl)-, stereoisomer (9CI) (CA INDEX NAME)



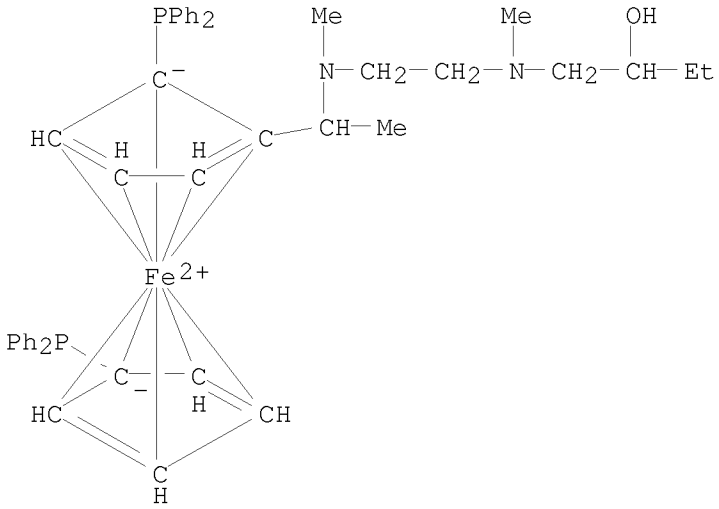
RN 136695-83-5 CAPLUS
CN Ferrocene, 1,1'-bis(diphenylphosphino)-2-(7-ethyl-1,2,5-trimethyl-9-oxo-8-oxa-2,5,10-triazaundec-1-yl)-, stereoisomer (9CI) (CA INDEX NAME)



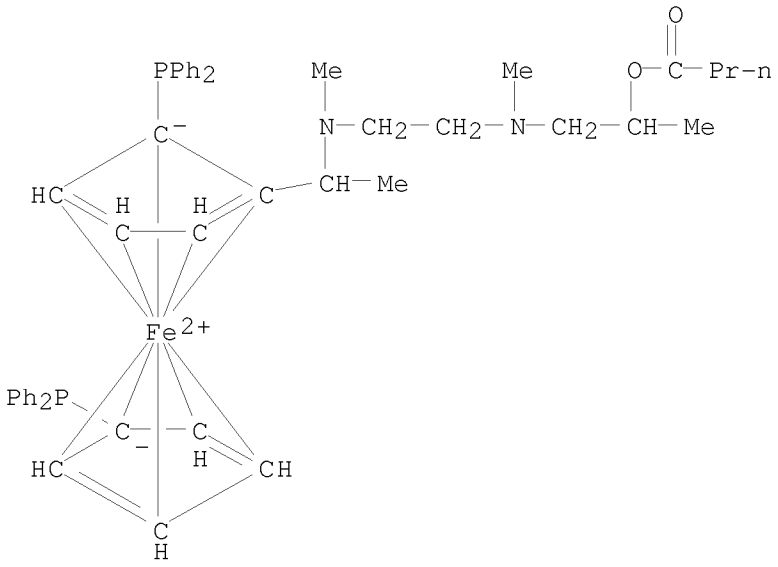
RN 136695-84-6 CAPLUS
CN Ferrocene, 1,1'-bis(diphenylphosphino)-2-(7-ethyl-1,2,5-trimethyl-9-oxo-8-oxa-2,5,10-triazaoctacos-1-yl)-, stereoisomer (9CI) (CA INDEX NAME)



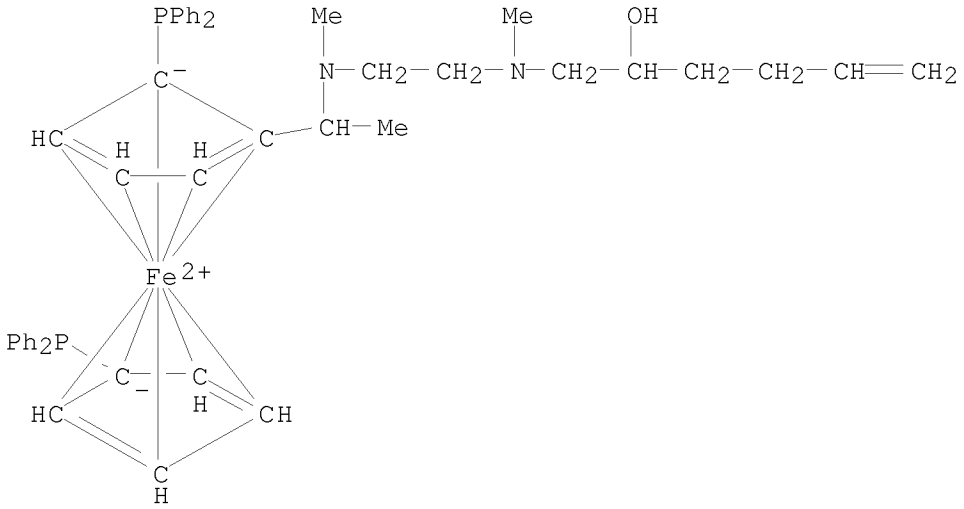
RN 136735-17-6 CAPLUS
CN Ferrocene, 1,1'-bis(diphenylphosphino)-2-[1-[[2-[(2-hydroxybutyl)methylamino]ethyl]methylamino]ethyl]-, stereoisomer (9CI) (CA INDEX NAME)



RN 136735-19-8 CAPLUS
CN Ferrocene, 1,1'-bis(diphenylphosphino)-2-[1-[methyl[2-[methyl[2-(1-oxobutoxy)propyl]amino]ethyl]amino]ethyl]-, stereoisomer (9CI) (CA INDEX NAME)

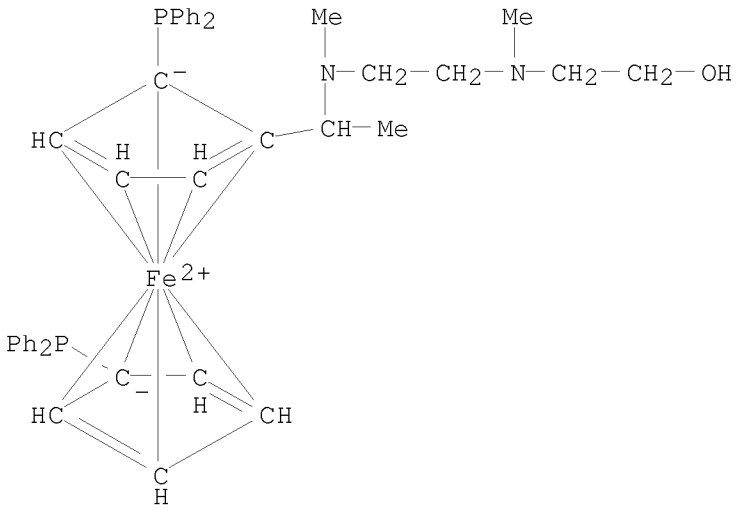


RN 136735-72-3 CAPLUS
CN Ferrocene, 1,1'-bis(diphenylphosphino)-2-[1-[[2-[(2-hydroxy-5-hexenyl)methylamino]ethyl]methylamino]ethyl]-, stereoisomer (9CI) (CA INDEX NAME)

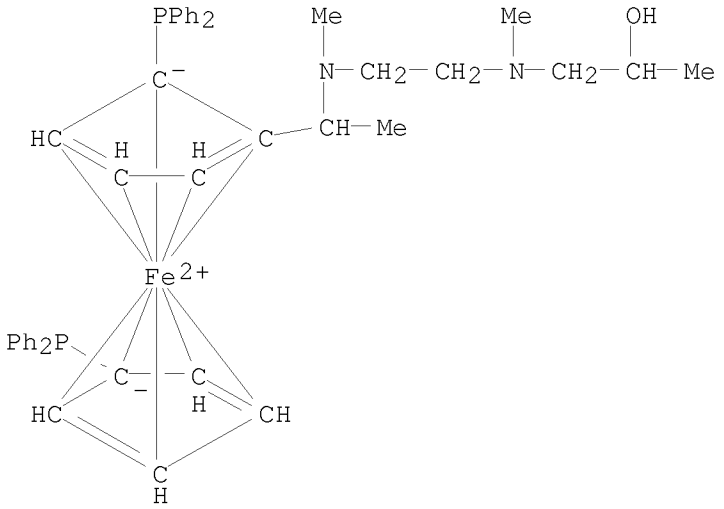


IT 136637-96-2P 136638-05-6P 136638-06-7P
136638-07-8P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation, reaction with isocyanates, and gold-catalyzed aldol reaction of benzaldehyde with Me isocyanoacetate in presence of, stereochem. of)
RN 136637-96-2 CAPLUS
CN Ferrocene, 1,1'-bis(diphenylphosphino)-2-[1-[[2-[(2-hydroxyethyl)methylamino]ethyl]methylamino]ethyl]-, [R-(R*,R*)]- (9CI)

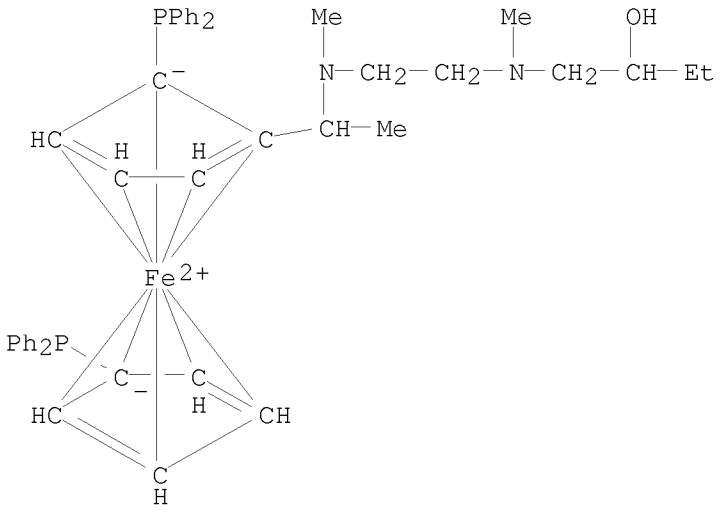
(CA INDEX NAME)



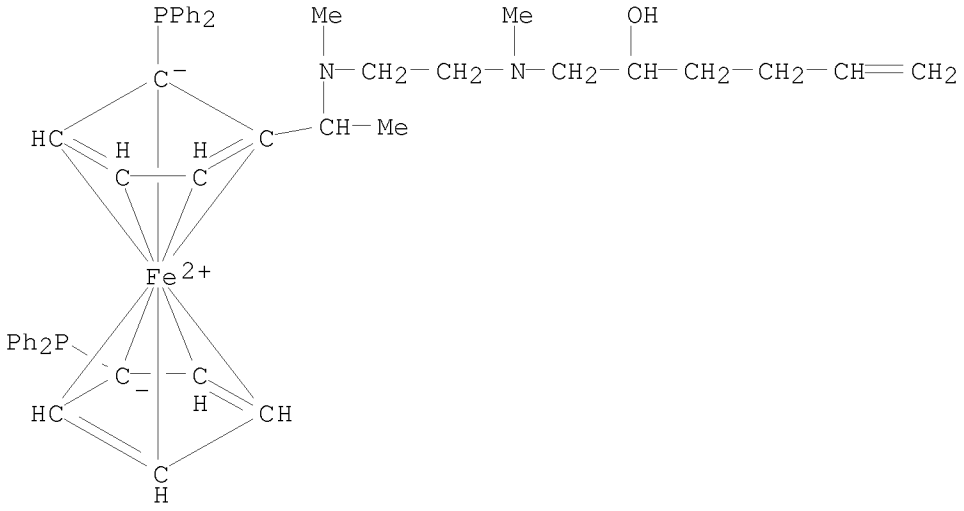
RN 136638-05-6 CAPLUS
CN Ferrocene, 1,1'-bis(diphenylphosphino)-2-[1-[[2-[(2-hydroxypropyl)methylamino]ethyl]methylamino]ethyl]-, stereoisomer (9CI) (CA INDEX NAME)



RN 136638-06-7 CAPLUS
CN Ferrocene, 1,1'-bis(diphenylphosphino)-2-[1-[[2-[(2-hydroxybutyl)methylamino]ethyl]methylamino]ethyl]-, stereoisomer (9CI) (CA INDEX NAME)

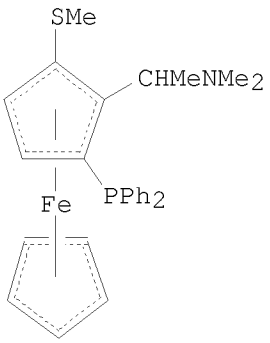


RN 136638-07-8 CAPLUS
CN Ferrocene, 1,1'-bis(diphenylphosphino)-2-[1-[[2-[(2-hydroxy-5-hexenyl)methylamino]ethyl]methylamino]ethyl]-, stereoisomer (9CI) (CA INDEX NAME)



L11 ANSWER 9 OF 14 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1990:459444 CAPLUS
DOCUMENT NUMBER: 113:59444
ORIGINAL REFERENCE NO.: 113:10067a,10070a
TITLE: Stereoselective synthesis, conformation and complexing behavior of 1,2,3-trisubstituted chiral ferrocenes
AUTHOR(S): Deus, Norbert; Huebener, Gerd; Herrmann, Rudolf
CORPORATE SOURCE: Org.-Chem. Inst., Tech. Univ. Muenchen, Garching, D-8046, Germany

SOURCE: Journal of Organometallic Chemistry (1990), 384(1-2), 155-63
CODEN: JORCAI; ISSN: 0022-328X
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 113:59444
GI



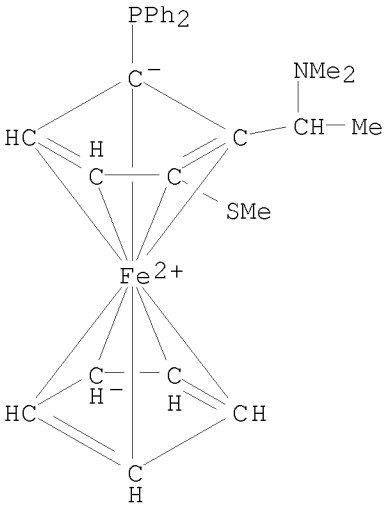
I

AB Sulfur and phosphorus substituents have been introduced into the 2 and 5 positions of the ferrocene nucleus in chiral 1-(dimethylamino)ethylferrocene by stereoselective lithiation and reaction with electrophiles. The conformations of the diastereoisomeric trisubstituted ferrocenes, e.g. (R,R)-I, have been determined by NMR methods. The compds. behave as bidentate or monodentate ligands for transition metals, leaving one or two coordination sites for a further metal. NMR expts. suggest different site selectivity in the formation of nickel(II) and rhodium(I) complexes.

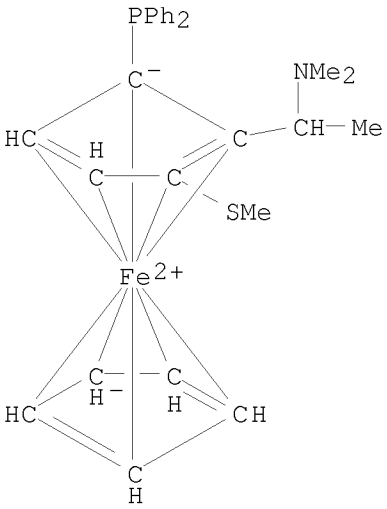
IT 128299-56-9DP, rhodium complexes
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and catalytic activity of, for asym. hydrogenation for acetylaminocinnamic acid)

RN 128299-56-9 CAPLUS

CN Ferrocene, 2-[1-(dimethylamino)ethyl]-1-(diphenylphosphino)-3-(methylthio)-, [R-(R*,R*)]- (9CI) (CA INDEX NAME)



IT 128137-34-8P 128137-35-9P
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(preparation and conformation of)
RN 128137-34-8 CAPLUS
CN Ferrocene, 2-[1-(dimethylamino)ethyl]-1-(diphenylphosphino)-3-(methylthio)-, [S-(R*,S*)]- (9CI) (CA INDEX NAME)



RN 128137-35-9 CAPLUS
CN Ferrocene, 2-[1-(dimethylamino)ethyl]-1-(diphenylphosphino)-3-[(4-methylphenyl)thio]-, [S-(R*,S*)]- (9CI) (CA INDEX NAME)

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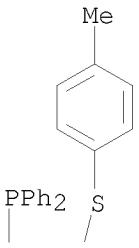

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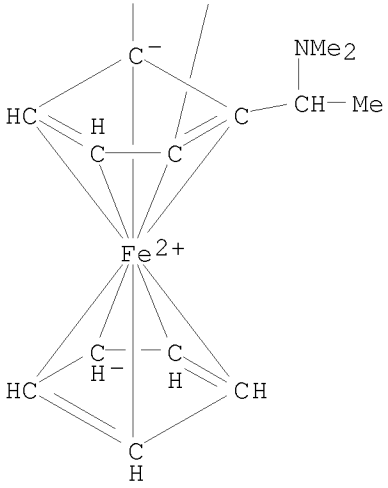

IT 128299-57-0P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction of, with nickel chloride)
RN 128299-57-0 CAPLUS
CN Ferrocene, 2-[1-(dimethylamino)ethyl]-1-(diphenylphosphino)-3-[(4-methylphenyl)thio]-, [R-(R*,R*)]- (9CI) (CA INDEX NAME)

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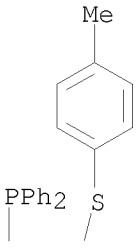

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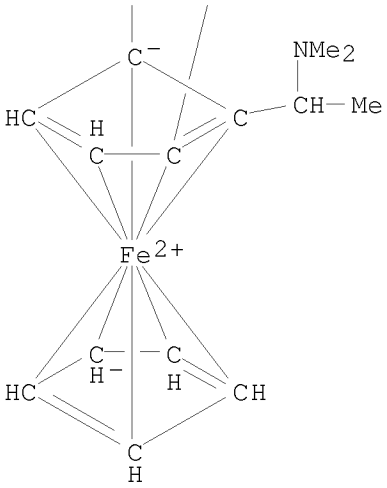
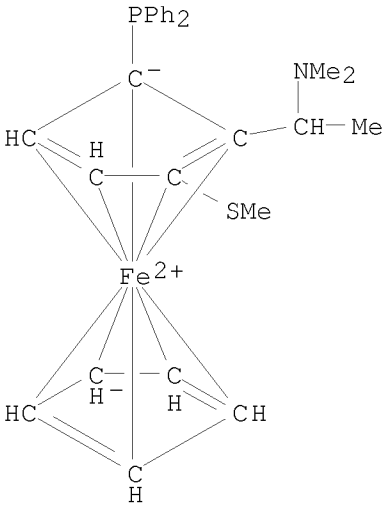


IT 128299-56-9P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction of, with rhodium complex)
RN 128299-56-9 CAPLUS
CN Ferrocene, 2-[1-(dimethylamino)ethyl]-1-(diphenylphosphino)-3-(methylthio)-

, [R-(R*,R*)]- (9CI) (CA INDEX NAME)



L11 ANSWER 10 OF 14 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1986:443034 CAPLUS
DOCUMENT NUMBER: 105:43034
ORIGINAL REFERENCE NO.: 105:7133a,7136a
TITLE: Synthesis of derivatives of [α(dimethylamino)ethyl]ferrocene via lithiation reactions and the structure of 2-[α-(dimethylamino)ethyl]-1,1',3-tris(trimethylsilyl)ferrocene
AUTHOR(S): Butler, Ian R.; Cullen, William R.; Rettig, Steven J.
CORPORATE SOURCE: Chem. Dep., Univ. British Columbia, Vancouver, BC, V6T 1Y6, Can.
SOURCE: Organometallics (1986), 5(7), 1320-8
CODEN: ORGND7; ISSN: 0276-7333
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 105:43034
GI For diagram(s), see printed CA Issue.
AB Dilithiation of Fe(C5H4CHMeNMe2)(C5H5) (I) with BuLi is predominantly homoannular but with BuLi/TMED (TMED = tetramethylethylenediamine) is heteroannular. Heteroannular dilithiation predominates in the reaction of BuLi/TMED with Fe[C5H3(CHMeNMe2)SiMe3-1,2](C5H5), Fe[C5H3(CHMeNMe2)SiMe3-1,2](C5H4SiMe3), and Fe[C5H2(CHMeNMe2)(SiMe3)2-1,2,3](C5H4SiMe3) (II). The lithioferrocenes react with ClSiMe3 to afford isolable products although some mixts. of isomers are difficult to characterize. The [3]ferrocenophane (III) is obtained from I as are [Fe(C5H5)(C5H3(CHMeNMe2)-1,2]]xQ [x = 2, Q = PPh; x = 1, Q = SMe; x = 1, Q = PPhCMe3 (only one diastereomer because of strong chiral induction)] and Fe(C5H4CHMeNMe2)(C5H4AsPh2). The crystal structure of II was determined
IT 101932-80-3P 101932-81-4P 101932-82-5P
101932-84-7P 101953-07-5P
RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation of)
RN 101932-80-3 CAPLUS
CN Ferrocene, 1,1''-(phenylphosphinidene)bis[2-[1-(dimethylamino)ethyl]-
(9CI) (CA INDEX NAME)

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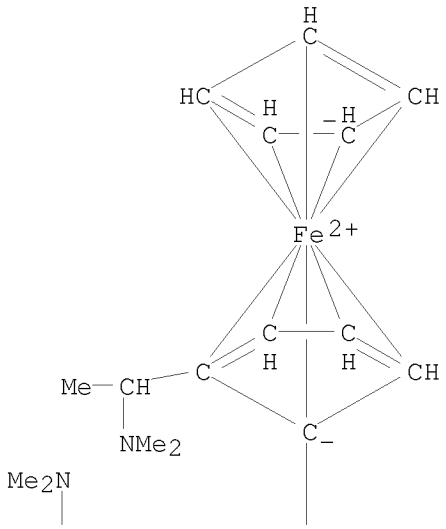

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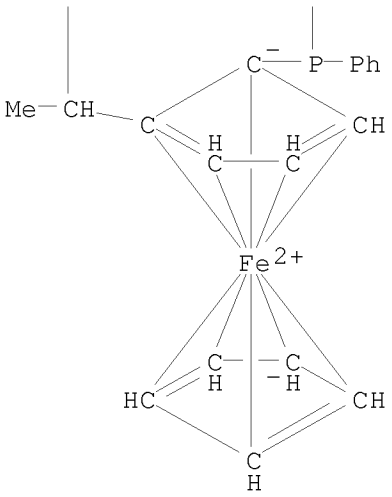

RN 101932-81-4 CAPLUS
CN Ferrocene, 1,1''-[(1,1-dimethylethyl)phosphinidene]bis[2-[1-

(dimethylamino)ethyl]- (9CI) (CA INDEX NAME)

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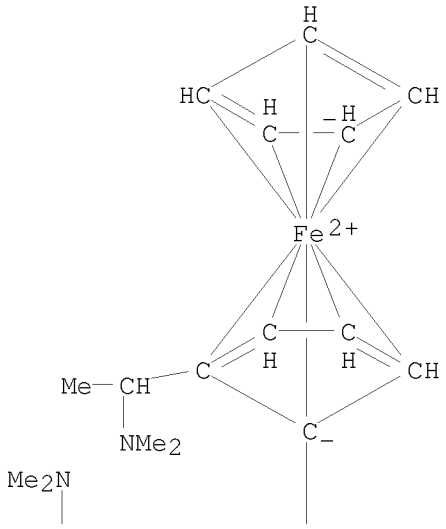

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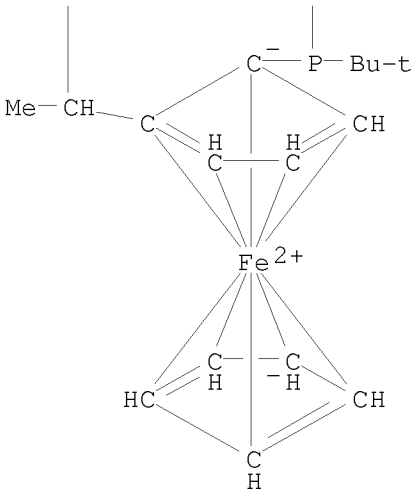
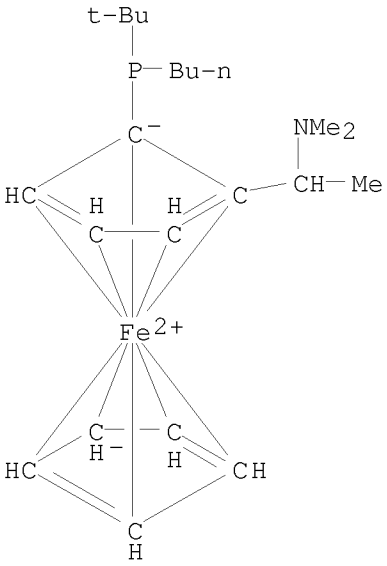
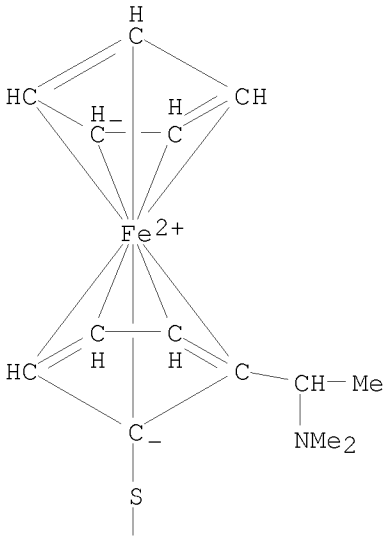


RN 101932-82-5 CAPLUS
CN Ferrocene, 1-[butyl(1,1-dimethylethyl)phosphino]-2-[1-(dimethylamino)ethyl]- (CA INDEX NAME)



RN 101932-84-7 CAPLUS
CN Ferrocene, 1,1''-thiobis[2-[1-(dimethylamino)ethyl]- (9CI) (CA INDEX NAME)

PAGE 1-A



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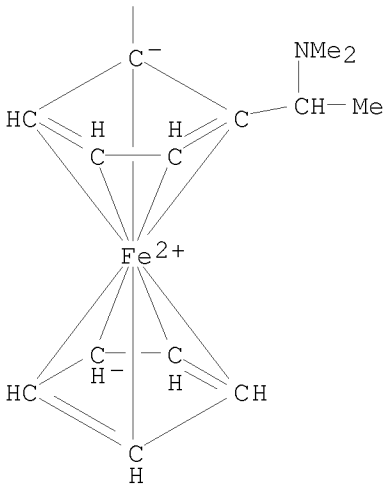
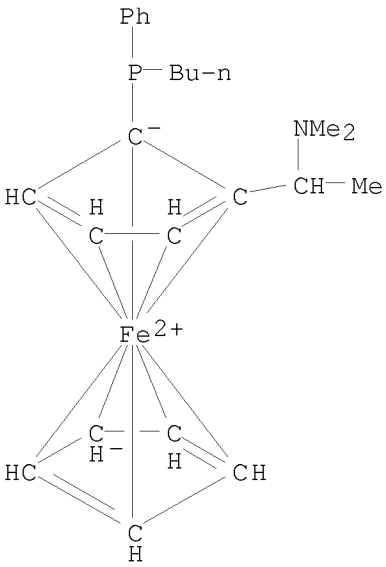


RN 101953-07-5 CAPLUS
CN Ferrocene, 1-(butylphenylphosphino)-2-[1-(dimethylamino)ethyl]- (CA INDEX NAME)



L11 ANSWER 11 OF 14 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1985:437577 CAPLUS
DOCUMENT NUMBER: 103:37577
ORIGINAL REFERENCE NO.: 103:6103a,6106a
TITLE: Synthesis of some isopropylphosphinoferrocenes
AUTHOR(S): Butler, Ian R.; Cullen, William R.; Kim, Tae Jeong
CORPORATE SOURCE: Chem. Dep., Univ. British Columbia, Vancouver, BC, V6T 1Y6, Can.

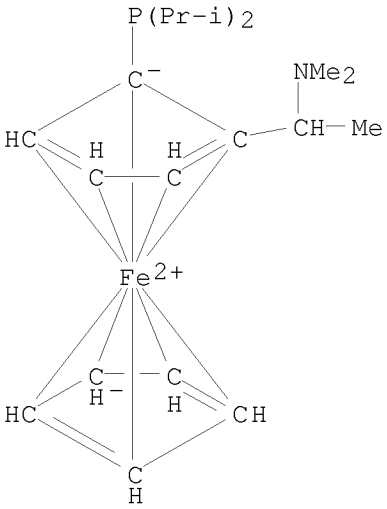
SOURCE: Synthesis and Reactivity in Inorganic and Metal-Organic Chemistry (1985), 15(1), 109-16
CODEN: SRIMCN; ISSN: 0094-5714
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 103:37577

GI For diagram(s), see printed CA Issue.

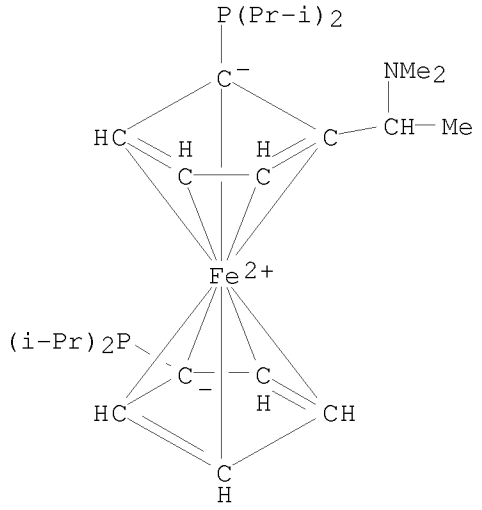
AB The reactions of lithioferrocenes with chloroisopropylphosphines have been carried out to afford a series of new isopropylphosphinoferrocene derivs. including [1]-ferrocenophanes. Thus, the reaction of I (R = Li).Q (II, Q = tetramethylethylenediamine) with ClP(CHMe2)2 gave I [R = P(CHMe2)2] and the reaction of II with Cl2PCHMe2 gave III.

IT 97239-82-2P 97239-83-3P
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(preparation and spectra of)

RN 97239-82-2 CAPLUS
CN Ferrocene, 1-[bis(1-methylethyl)phosphino]-2-[1-(dimethylamino)ethyl]- (CA INDEX NAME)

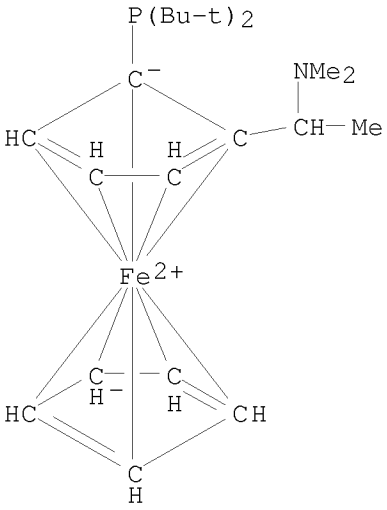


RN 97239-83-3 CAPLUS
CN Ferrocene, 1,1'-bis[bis(1-methylethyl)phosphino]-2-[1-(dimethylamino)ethyl]- (CA INDEX NAME)

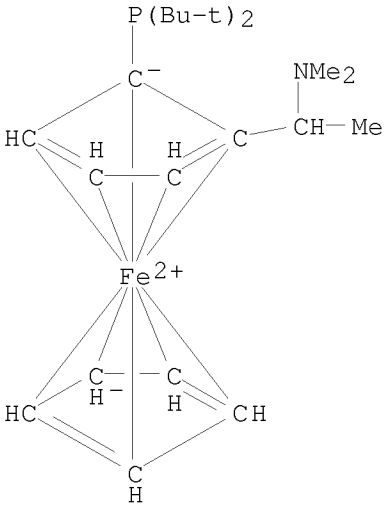


L11 ANSWER 12 OF 14 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1985:166925 CAPLUS
DOCUMENT NUMBER: 102:166925
ORIGINAL REFERENCE NO.: 102:26253a,26256a
TITLE: Rhodium(I) complexes of ferrocenylphosphines as efficient asymmetric catalysts. The structure of Fe(η5-C5H3(P(CMe3)2-1,3)(η5-C5H3(CHMeNMe2)P(CMe3)2-1,2)
AUTHOR(S): Appleton, Trevor D.; Cullen, William R.; Evans, Stephen V.; Kim, Tae Jeong; Trotter, James
CORPORATE SOURCE: Dep. Chem., Univ. Br. Columbia, Vancouver, BC, V6T 1Y6, Can.
SOURCE: Journal of Organometallic Chemistry (1985), 279(1-2), 5-21
CODEN: JORCAI; ISSN: 0022-328X
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 102:166925
GI For diagram(s), see printed CA Issue.
AB The chiral aminomethylferrocenes (R)- or (S)-I (R-R2 = H) were lithiated and treated with ClP(CMe3)2 under varying reaction conditions to give (R,S)-I [R = P(CMe3)2; R1 = H (II), P(CMe3)2 (III); R2= H] and (S,R)-I (same R's) resp. Similarly, (R, R)- or (S, S)-I [R = R2 = P(CMe3)2, R1 = H] (IV) were prepared from (R)- or (S)-I (R-R2 = H) resp. [Rh(NBD)L]ClO4 [V; NBD = norbornadiene, L = (S,R)-II, (S,R-III, (S,S)-IV] catalyzed asym hydrogenation of H2C:CR3CO2H (R3 = Me, CH2CO2H) and PhCH:CR4CO2H (R4 = NHAc, Me); V [L = (S,S)-IV] gave products with up to 95% enantiomeric excesses. The x-ray crystal structure of (S,S)-IV showed the cyclopentadienyl rings are close to planar, deviate slightly from coplanarity, and are rotated by about 7° from an eclipsed conformation. The substituent P and C atoms are significantly displaced from the ring planes.
IT 83356-93-8 95839-80-8
RL: RCT (Reactant); RACT (Reactant or reagent)
(complexation of, with rhodium complex)

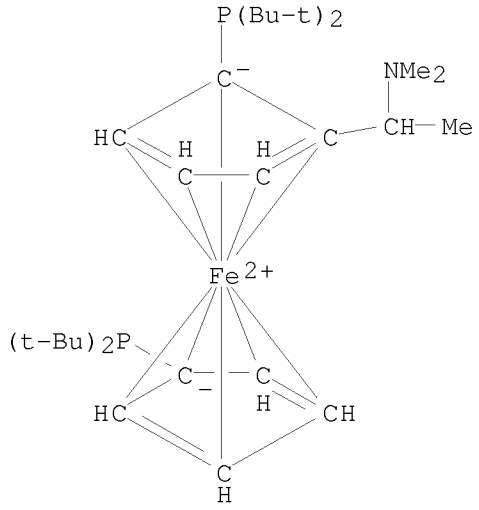
RN 83356-93-8 CAPLUS
CN Ferrocene, 1-[bis(1,1-dimethylethyl)phosphino]-2-[(1R)-1-(dimethylamino)ethyl]-, (1R)- (9CI) (CA INDEX NAME)



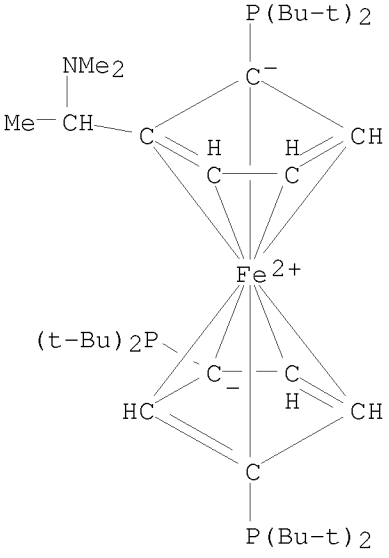
RN 95839-80-8 CAPLUS
CN Ferrocene, 1-[bis(1,1-dimethylethyl)phosphino]-2-[1-(dimethylamino)ethyl]-, [S-(R*,R*)]- (9CI) (CA INDEX NAME)



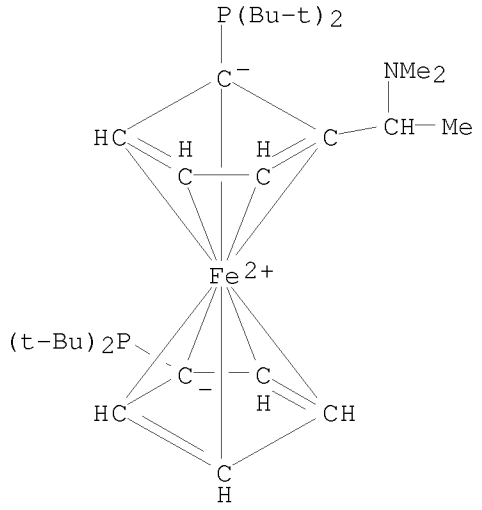
IT 95762-74-6P 95839-79-5P 95840-91-8P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and complexation of, with rhodium)
RN 95762-74-6 CAPLUS
CN Ferrocene, 1,1'-bis[bis(1,1-dimethylethyl)phosphino]-2-[1-(dimethylamino)ethyl]-, [R-(R*,R*)]- (9CI) (CA INDEX NAME)



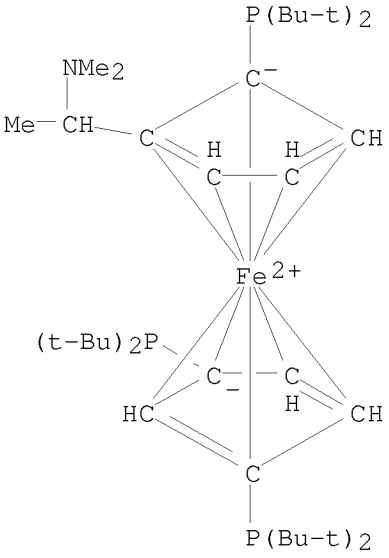
RN 95839-79-5 CAPLUS
CN Ferrocene, 1,1',3'-tris[bis(1,1-dimethylethyl)phosphino]-2-[1-(dimethylamino)ethyl]-, [S-(R*,S*)]- (9CI) (CA INDEX NAME)



RN 95840-91-8 CAPLUS
CN Ferrocene, 1,1'-bis[bis(1,1-dimethylethyl)phosphino]-2-[1-(dimethylamino)ethyl]-, [S-(R*,R*)]- (9CI) (CA INDEX NAME)

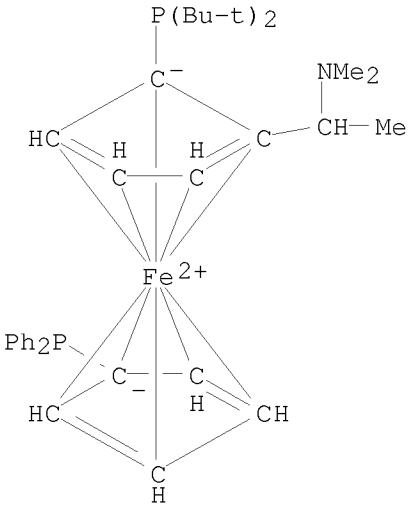


IT 95762-75-7P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation, crystal structure, and complexation of, with rhodium)
RN 95762-75-7 CAPLUS
CN Ferrocene, 1,1',3'-tris[bis(1,1-dimethylethyl)phosphino]-2-[1-(dimethylamino)ethyl]-, [R-(R*,S*)]- (9CI) (CA INDEX NAME)



L11 ANSWER 13 OF 14 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1983:160896 CAPLUS
DOCUMENT NUMBER: 98:160896
ORIGINAL REFERENCE NO.: 98:24423a,24426a
TITLE: The synthesis of α-N,N-dimethyl-1'-

diphenylphosphinoferrocenylethylamine and related ligands
AUTHOR(S): Butler, Ian R.; Cullen, William R.
CORPORATE SOURCE: Chem. Dep., Univ. British Columbia, Vancouver, BC, V6T 1Y6, Can.
SOURCE: Canadian Journal of Chemistry (1983), 61(1), 147-53
CODEN: CJCHAG; ISSN: 0008-4042
DOCUMENT TYPE: Journal
LANGUAGE: English
AB Routes to the title compound were explored based on the cleavage of [1]-ferrocenophanes with aryllithium. Thus, the cleavage of I with PhLi affords (η5-C5H4Li)Fe[(η5-C5H3(CHMeNMe2)PPh2] and (η5-C5H4PPh2)Fe[η5-C5H4PPh2)Fe[η5-C5H3Li(CHMenMe2)] in the ratio 15:85. Hydrolysis of this mixture affords the title compound II. The lithio-ferrocenes can be treated with XER2 to yield other mixed ligands (E = As, P; X = halo). A route to II via (η5-C5H4PPh2)Fe(η5-C5H4COMe) was also established but it is complicated by low yields and many side products such as [(η5-C5H4PPh2)Fe(η5-C5H4)]2C:CH2.
IT 85150-28-3P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 85150-28-3 CAPLUS
CN Ferrocene, 1-[bis(1,1-dimethylethyl)phosphino]-2-[1-(dimethylamino)ethyl]-1'-(diphenylphosphino)- (CA INDEX NAME)



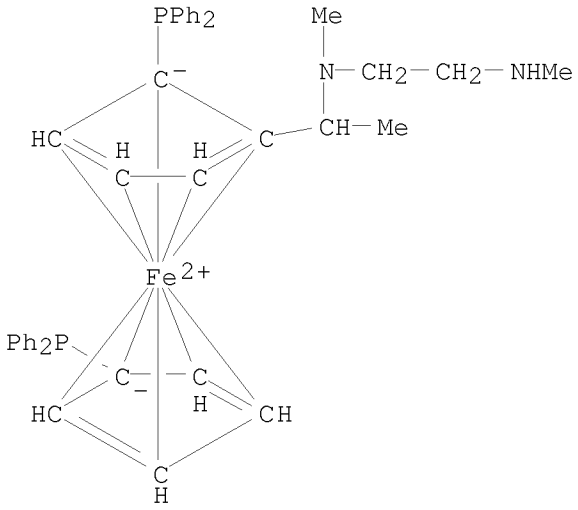
L11 ANSWER 14 OF 14 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1980:471919 CAPLUS
DOCUMENT NUMBER: 93:71919
ORIGINAL REFERENCE NO.: 93:11705a,11708a
TITLE: Asymmetric synthesis catalyzed by chiral ferrocenylphosphine-transition metal complexes. I. Preparation of chiral ferrocenylphosphines
AUTHOR(S): Hayashi, Tamio; Mise, Takaya; Fukushima, Motoo; Kagotani, Masahiro; Nagashima, Nobuo; Hamada, Yuji;

Matsumoto, Akira; Kawakami, Sota; Konishi, Mitsuo; et al.
CORPORATE SOURCE: Fac. Eng., Kyoto Univ., Kyoto, 606, Japan
SOURCE: Bulletin of the Chemical Society of Japan (1980), 53(4), 1138-51
CODEN: BCSJA8; ISSN: 0009-2673
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 93:71919

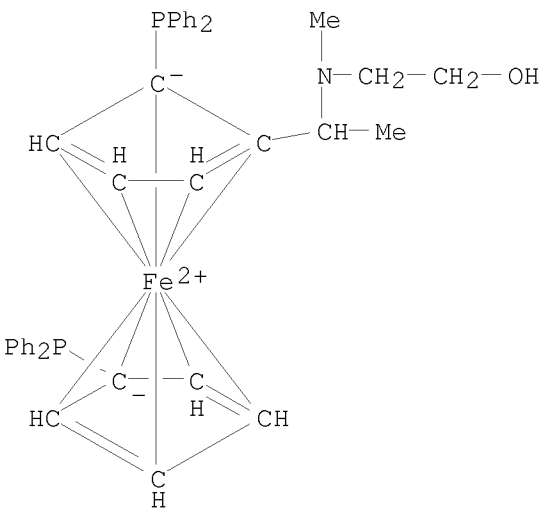
AB As chiral ligands for transition metal complex catalyzed asym. reactions, various kinds of chiral ferrocenylphosphines, which have planar chirality due to 1,2-unsym. substituted ferrocene structure and also have a functional group on the side chain of the ferrocene nucleus, were prepared (S)-N,N-Dimethyl-1-[(R)-2-(diphenylphosphino)ferrocenyl]ethylamine, (S)-N,N-dimethyl-1-[(R)-1',2-bis(diphenylphosphino)ferrocenyl]ethylamine and their dimethylphosphino derivs. were prepared by lithiation of optically resolved N,N-dimethyl-1-ferrocenylethylamine. The 1-(dimethylamino)ethyl group on the ferrocenylphosphines was converted stereospecifically by nucleophilic substitution reactions into 1-methoxy-, 1-hydroxy-, 1-diphenylphosphino-, and several 1-(dialkylamino)ethyl groups. 1-(Diphenylphosphino)-2-(dimethylaminomethyl)ferrocene was optically resolved via its phosphine sulfide dibenzoyltartaric acid salt. The relationship between CD spectra of the chiral ferrocenylphosphines and the configuration of their chirality is discussed.

IT 74286-08-1P 74286-09-2P 74286-15-0P
74286-16-1P 74286-17-2P 74286-20-7P
74286-51-4P 74299-69-7P 74299-70-0P
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(preparation and properties of)

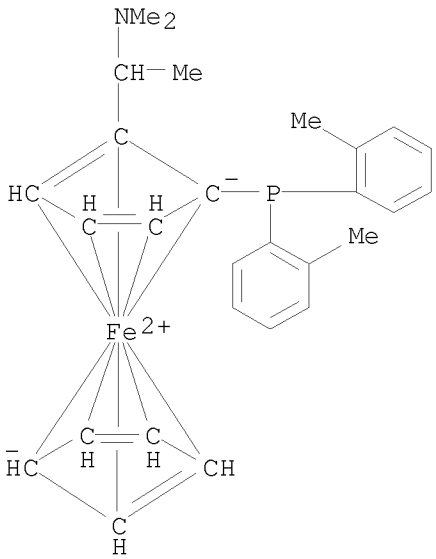
RN 74286-08-1 CAPLUS
CN Ferrocene, 1,1'-bis(diphenylphosphino)-2-[1-[methyl[2-(methylamino)ethyl]amino]ethyl]-, stereoisomer (9CI) (CA INDEX NAME)



RN 74286-09-2 CAPLUS
CN Ferrocene, 1,1'-bis(diphenylphosphino)-2-[(1R)-1-[(2-hydroxyethyl)methylamino]ethyl]-, (R)- (9CI) (CA INDEX NAME)



RN 74286-15-0 CAPLUS
CN Ferrocene, 1-[bis(2-methylphenyl)phosphino]-2-[1-(dimethylamino)ethyl]-, [S-(R*,R*)]- (9CI) (CA INDEX NAME)



RN 74286-16-1 CAPLUS
CN Ferrocene, 1-[bis(3-methylphenyl)phosphino]-2-[1-(dimethylamino)ethyl]-, stereoisomer (9CI) (CA INDEX NAME)

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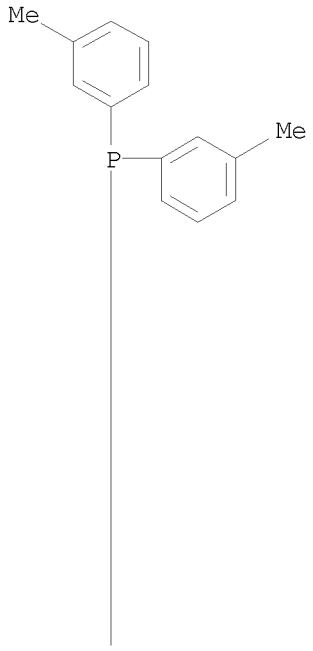

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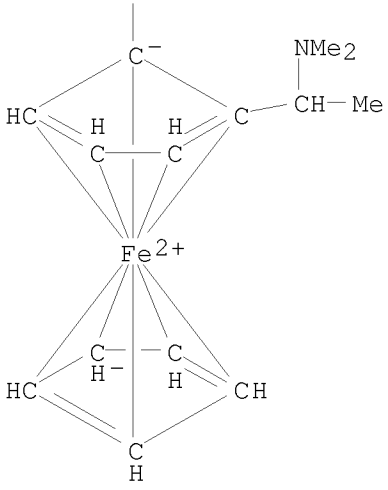
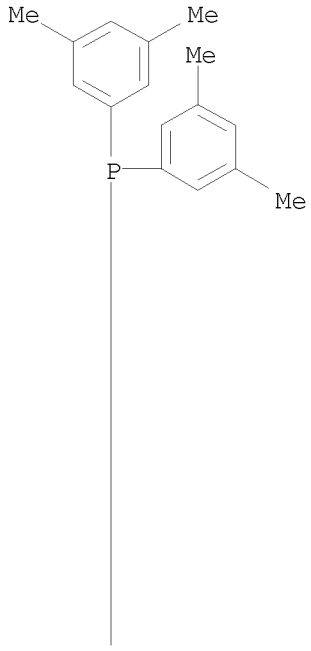


RN 74286-17-2 CAPLUS
CN Ferrocene, 1-[bis(3,5-dimethylphenyl)phosphino]-2-[(1S)-1-(dimethylamino)ethyl]-, (1S)- (CA INDEX NAME)

PAGE 1-A



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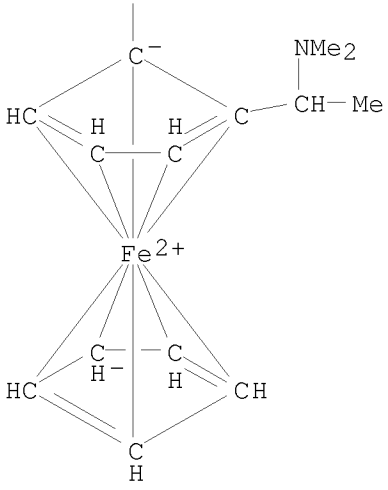
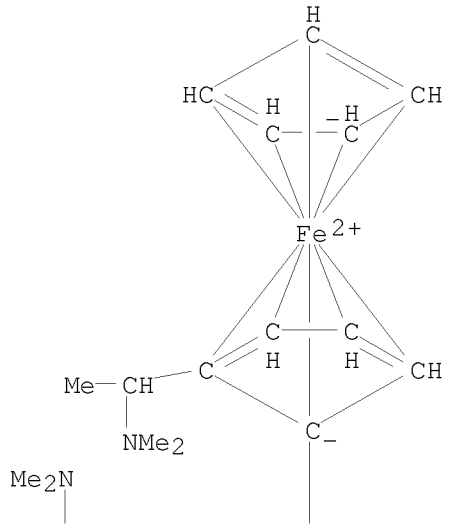


RN 74286-20-7 CAPLUS
CN Ferrocene, 1,1''-(phenylphosphinidene)bis[2-[1-(dimethylamino)ethyl]-, stereoisomer (9CI) (CA INDEX NAME)

PAGE 1-A



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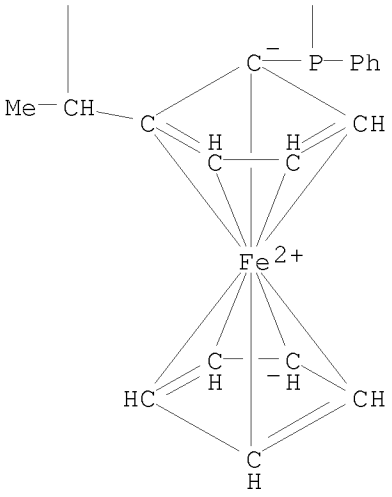
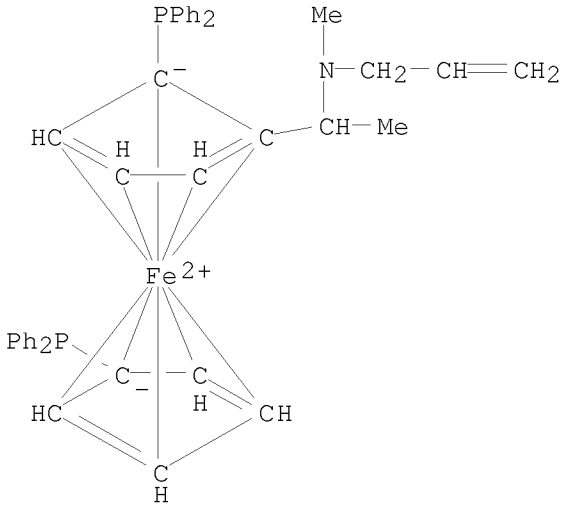
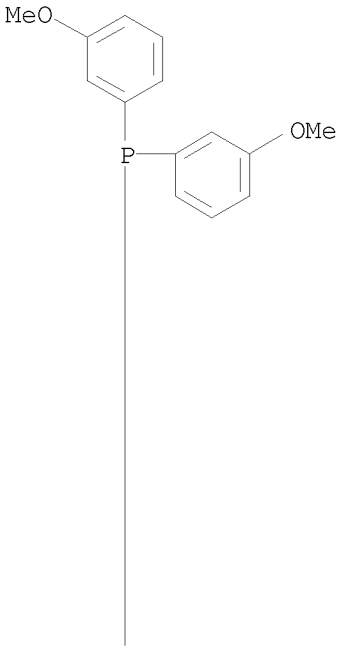


RN 74286-51-4 CAPLUS
CN Ferrocene, 1,1'-bis(diphenylphosphino)-2-[1-(methyl-2-propenylamino)ethyl]-, stereoisomer (9CI) (CA INDEX NAME)



RN 74299-69-7 CAPLUS
CN Ferrocene, 1-[bis(3-methoxyphenyl)phosphino]-2-[1-(dimethylamino)ethyl]-, stereoisomer (9CI) (CA INDEX NAME)

PAGE 1-A



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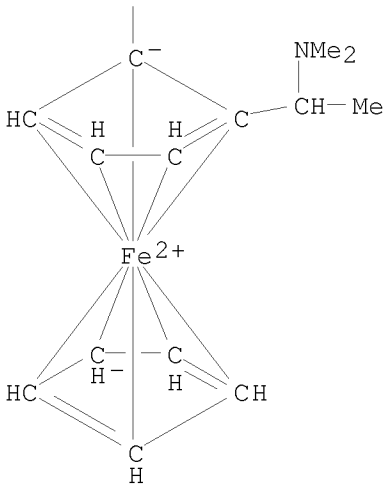
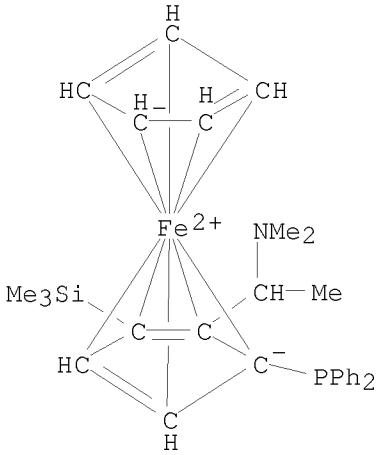


RN 74299-70-0 CAPLUS
CN Ferrocene, 2-[(1R)-1-(dimethylamino)ethyl]-1-(diphenylphosphino)-3-(trimethylsilyl)-, (1S)- (9CI) (CA INDEX NAME)



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